# EUROTEC

People • Technology • Solutions

Product Catalogue & Price Guide
- 2017/2018 Edition -
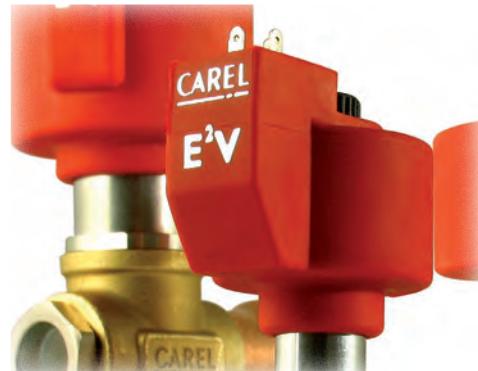
HVAC • Refrigeration • Electrical • Measurement

The Eurotec Commitment

People, Technology and Solutions

Our Mission:

Through the Knowledge and Ability of our People and the Technology of our Products we deliver the best possible Solutions to our Customers.

Eurotec Limited
Committed to excellence and service in technology

Contacts

Upper North Island

Business Unit	Name	Title/Region	Direct Dial	Mobile
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	Paul Colyer	Sales Engineer - Auckland - Central & South, Northland & Waikato	09 526 7558	021 407 999
	Arvan Wahla	Sales Engineer - Auckland - West & North, Penrose, Coromandel B.O.P & Gisborne	09 526 8530	021 288 0628
	Dina Nicolaides	Brand Development - Trust Smart Home	09 526 7563	021 433 952
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After-Sales	Praveen Laxmidas	Department Manager - Service & Calibration Technician	09 526 7556	021 410 999
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Lower North Island

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South Island

| Business Unit	Name	Title/Region	Direct Dial	Mobile
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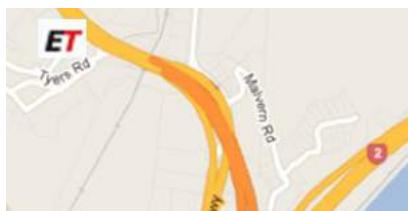
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Eurotec Business Units

Each price list page has one or more symbols at the top. This is a guide to identify which Business Unit the products belong. Where more than one Business Unit is involved, the lead Unit is shown as the largest symbol.

Electrical

The Electrical Business Unit supplies quality electrical control equipment. Our products include temperature, level and pressure controls as well as a range of motor control equipment.
As part of our electrical range we offer products designed to save time and money. The Wattstopper occupancy sensors and Trust wireless remote controls are products for commercial and residential use for energy saving, home automation, and remote control of various loads.

We supply a wide range of products through Electrical Wholesalers, from Cotherm hot water cylinder thermostats, Mac3 float and floatless level controls, Orbis time clocks and Benedikt & Jager motor-control gear to Benning Duspols, Multimeters and Clamp-meters.

Flow switches and custom made level controls form part of our extensive range of products to diverse industries, including boat building, dairy, refrigeration and HVAC. Our quality range of industrial level controls from Kubler as well as pressure and temperature controls from Trafag are frequently specified on projects that demand high performance and high reliability products. EX rated controls are available as standard products from our suppliers for demanding applications.

Refrigeration

The Refrigeration Business Unit markets and supports the CAREL range of Refrigeration & Air conditioning control products and systems, these being sold through our Refrigeration OEM and Contractor Partners throughout the country, and supported by experienced sales engineers in each of our branches.

More recently we have expanded our refrigeration product range to include an extensive range of quality Refrigerant Gas Leak Detection Sensors from MSA and Honeywell Manning incorporating Infra Red technology, providing the highest level of reliability and repeatability available to the industry today as well as HITACHI horizontal scroll compressors for OEM applications in the Refrigeration and Air-conditioning Industries, and 3 brands of Ice Machines for the Food Retail, Hospitality and Industrial sectors; FUNK GmbH, MAJA and ZIEGRA.

HVAC & Mechanical Services

Our HVAC Business Unit markets and supports an extensive range of commercial Control and Peripheral products for the Heating Ventilating and Air Conditioning Industry. With brand names like BELIMO, CAREL and SAUTER from Europe, and INNOTECH controls from Australia, Eurotec represent some of the best quality and leading edge industrial technology from global market leaders in HVAC Control & Humidification products. This allows us the unique opportunity to provide a range of solutions and systems to meet the most diverse needs. The HVAC Business Unit also markets both fixed and portable gas and air quality sensors and controls, from handheld instruments for personal safety in confined and/or hazardous spaces to permanently installed sensors for car-park ventilation or hazardous/explosive gases monitoring.

In addition, the HVAC BU offer Process Cooling solutions for Data Centres from AIREDALE, the leading UK manufacturer of industrial airconditioning and chiller solutions.

With over 100 years combined experience in the industry our staff can help you with engineered solutions and the selection of products to suit your requirements. Working closely with consulting engineers and contractors we offer services ranging from Valve, Actuator and Controls selection to Design & Build advice, ensuring the completed system operates as it has been designed.

Eurotec Business Units

Instrumentation & Measurement

The Instrumentation and Measurement Business Unit markets and supports a wide range of instrumentation products for many industries. Our two main agencies for these products come from Germany and are global players in their respective markets. BENNING manufacture a comprehensive range of Electrical test & measurement instrumentation and TESTO is a world leader in portable instrumentation for the measurement of physical values. BENNING is distributed through our nationwide network of Electrical Wholesalers whilst TESTO instrumentation is sold both direct to the markets and through our appointed Distributors.

Eurotec also has Personal Gas Safety Monitoring products in our instrumentation and measurement portfolio. MSA are leaders in the Gas Measurement technology area for personnel working in enclosed spaces or with hazardous & toxic chemicals. We also stock a range of digital thermometers, multimeters, manometers, and other testing instrumentation.

Fixed Gas Detection Systems for Hazardous and Toxic Gases are also available through our I&M Business Unit. Global brands MSA, Honeywell, Manning and Gastron are all sold and supported through the I&M BU.

Our After-Sales Dept offers both on-site and return to base Calibration Services & Repairs for all of the brands we offer as well as competitor products.

After-Sales

The After-Sales Department provides Calibration and Servicing of all instruments for the Food, Environmental, HVAC and Refrigeration, Manufacturing & Process Industries. We have a service workshop and laboratory set up in our Auckland office for calibrations and repairs. We aim to provide a 24hr turn-around for basic single point temperature calibrations, in particular for those customers in the Food Industry where temperature monitoring is critical to their HACCP Food Safety programs. We use a PC based service package enabling our After-Sales Dept to track and report on the status of any calibration of repair job back to our Sales Team or the Customer. This system also provides an automated calibration reminder notice to the customer, ensuring that they meet the requirements of their own quality systems.

To meet customer requirements for instrument calibrations in the field we have a vehicle configured to visit on site and perform calibrations for fixed sensors or fragile/bulky instruments; or for those that cannot be removed due to safety reasons e.g. car park C0 sensors. (These require regular calibration for building warrant of fitness and to comply to the Australia New Zealand standards AS1668.2, which states all such sensors must be calibrated every six months). This would be necessary for all car parks that are enclosed or under ground.

Our After-Sales B.U also offers customised site-specific calibration and preventative maintenance contracts for those clients requiring pre-planned and budgeted servicing costs, thereby reducing downtime and improved efficiency and accuracy of their quality systems

We also have a Humidity Calibrator, Velocity, Humidity, Temperature (contact & IR) and Pressure reference instruments with Traceability/Certification to carry out calibration checks on most instruments; and test gasses to carry out on-site calibrations for all Buildings, Hospitals & Pharmaceutical manufacturers.

Control Panel Solutions - A Division of Eurotec

Eurotec has been building and supplying Eurotec Control Panel Solutions to the Refrigeration industry since 2008. Since then we have become a leading manufacturer and supplier of Refrigerated Milk Vat control panels to the dairy sector controlling the refrigeration system(s), pumps and CIP functions as well as Condensing Unit control panels for OEM's, custom control panels for Refrigeration Racks, Chillers and a variety of commercial refrigeration applications.

In 2012 the Control Panel Solutions division (CPS) was established to reflect the growing control panels business and we now supply Control Panel Solutions to the Refrigeration, HVAC and Electrical markets. Applications typically include Fan Coil Unit Control Panels, Car Park Gas Detection and Ventilation Control Panels, Level & Pump Control Panels, Temperature & Humidity Control Panels.

CPS integrates and value-adds to the extensive range of Refrigeration, HVAC & Electrical control and monitoring solutions sold by Eurotec to NZ industry for over 30 years, with a focus on providing quality control panels at competitive prices yet providing clients with custom solutions to meet their application requirements.

CPS is supported by the wealth of industry and application knowledge that has been synonymous with Eurotec for over a quarter of a century.

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Industrial Capillary Type

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Industrial Contact (Pipe) | | Probe (Stem) Thermostats | | |

Trafag	T&G	Cotherm	Trafag	T&G
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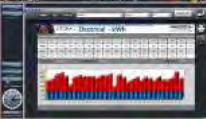
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R.F. Remote Controls & Automation

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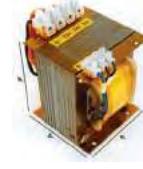
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Chronological Timers

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Belimo

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Calibration & Servicing

After Sales

- ¤ Scheduled calibration services for compliance & safety
- ¤ Instrument & sensor repairs for food safety, personal safety, industry instruments, HVAC & refrigeration
- ¤ Authorized servicing - Benning, Delta, Dickson, Testo
- ¤ 24 hour calibration turnaround

Scheduled Instrument Calibration

Eurotec offers a computer monitored, annual calibration service for clients registering their instruments serial number in the 'call back' program. Just like a 'WOF' reminder, clients are advised when their instruments are due for their periodic calibration and maintenance checks.

Food Industry - Scheduled Calibration Services

	Description	Method & Range	Recommended Frequency
Calibrations Turnaround 24	Calibration for food industry specific instruments - automatic annual notification; temperature (probe & I/R) and pH testers	A range of test and calibration methods suited to the various instrument types	Annual - or in accordance with audit & HACCP procedures

Thermometers & Multifunction - Scheduled Calibration Services

	Description	Method & Range	Recommended Frequency
BENNING Dickson	Calibration of industrial & general purpose thermometers	-20 to +150°C Contact / Surface / Air / Penetration / Bath & Dry Block Fixed & selective points	Annual

Humidity

	Electronic hygrometers, humidity data loggers.	Full scale range using high precision humidity Calibrator; 10-95% rH	Annual

Velocity

Be sure. testo	Hot wire/ hot ball & vane anemometers.	0 to 5m/s in a wind tunnel	Annual

Chemical, combustion & environmental

Critical Environment Technologies™	Calibration - excludes replacement of depleted gas cells (available on request). pH, Conductivity, Gas Combustion Analyzers, Environemtal Monitoring, Safety Devices, Car Parks.	Customised	Annual

Sound/Speed (Tacho) Meters

	Instrument calibration	-	Annual

Onsite Services - Upper North Island Area Only

"Eurotec provides onsite testing and calibration services for clients with installed instruments and sensors on industrial sites and public buildings (eg; car park gas sensors for building ""WOFs""). Please enquire for a full description of our technical departments onsite services."

⚠️ Eurotec maintains an in-house service & repair facility for our own Benning, Delta, Dickson and Testo instrument brands. Other brands of instruments can also be repaired and calibrated by the technicians at Eurotec.

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Process Coolers

¤ Suitable for 24/7 Operation
¤ High Sensible Heat Applications
¤ Precision temperature/humidity control
¤ Effective hot/cold air flow pathway
¤ High level air filtration of dirt & dust
¤ Energy efficient features and dual cool/free cooling options
¤ Remote alarm signalling and monitoring options
¤ MEPS Rated

Airedale EasiCool and SmartCool Solutions

6.0 ~ 60kW DX cooling models, air cooled or water cooled versions, up-flow & down-flow configurations

16 ~ 230kW Chilled Water down-flow models.

Model No:	SH Capacity	Trade Price
V/DF6X-EZRE-0/CR16	6.5kW	**$13,125.00**
V/DF10X-EZRE-0/CR22	10.8kW	**$13,665.00**
V/DF15X-EZRE-0/CR30	15.6kW	**$16,300.00**
V/DF22X2-EZRE-0/CR65	22.3kW	**$20,610.00**
SC12D029-X200-0/CR65	30.7kW	**$25,825.00**

EasiCool

NOTE:

• Indicative trade prices are for DX cooling only models, with EEV's and air cooled condenser.

• Prices Exclude GST, ex Auckland warehouse and based on sea-freight from UK factory.

• Prices do not include optional items such as Humidification and Interface Controls.

• Price on application for other configurations and cooling capacity models etc.

EasiCool™
6 - 64kW

HFC R410A	AIR DX	WATER DX
HFC R410A	AIR COOLED	WATER COOLED

CW	↑/↓	SCROLL	EC
CHILLED WATER	UPFLOW/DOWNFLOW	SCROLL COMPRESSOR	EC FAN

SmartCool™
16 - 233kW

HFC R410A	AIR DX	WATER DX	CW	↓
HFC R410A	AIR COOLED	WATER COOLED	CHILLED WATER	DOWNFLOW

SCROLL	% INVERTER	DUAL COOL	FREE COOL	EC
SCROLL COMPRESSOR	INVERTER COMPRESSOR	DUAL COOL	FREE-COOLING	EC FAN

SmartCool

Airedale has nearly 40 years' experience in designing and manufacturing high efficiency IT cooling solutions. Through continuous development and applying latest technology led by smart control logic, we offer flexible, bespoke systems that will optimise performance and help you achieve best practice, now and in the future.

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Airedale
APPLIED THERMAL INNOVATION

Airedale Air and Water Cooled Chillers

DeltaChill™ 110 -1080kW

HFC R410A	SCROLL COMPRESSOR	EC FAN	MICROCHANNEL COIL	AIR COOLED

» ESEER up to 5.03

» Low sound ranges

» Optimised for R410A - high heat transfer coefficient

» Excellent part load efficiencies

TurboChill™ Water Cooled & Air Cooled
150 -1576kW

HFO R1234ze	CENTRIFUGAL COMPRESSOR	AIR COOLED	WATER COOLED

» ESEER values of up to 8.86

» Class A EER up to 5.4

» Centrifugal TurboCor compressors*

» Scalable modular design

*30-100% variable speed control for tighter setpoint management and unbeatable efficiencies at part load.

CIBSE BUILDING PERFORMANCE AWARDS 2015 WINNER

TurboChill and TurboChill FreeCool R1234ze chiller named CIBSE Building Performance Awards 'Energy Saving Product of the Year'

Airedale APPLIED THERMAL INNOVATION

WINNER — BUILDING PERFORMANCE AWARDS 2015

WINNER — COOLING AWARDS 14

AWARDS 2014 WINNER

WINNER DCS awards 2014

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Comfort & Environmental Controls, Flow Switches

- Thermostats - capillary, immersion & wall mounted room types
- Flow switches
- Humidity controls
- Radiant heat sensors
- Lux sensors - photo sensitive switches for lighting control

Always The Right Temperature

Thermostats	Catalogue Ref No	Description	Capillary	Setting Range	Differential	Trade Price
	JET-110X	Capillary Thermostat IP65	1.8m	-35 To +30°C	2 - 20°C	$296.00
	JET-120X			0 To +60°C		$296.00
	JET-130X			+40 To +100°C		$296.00
	JET-140X			+70 To +130°C		$296.00
	JET-150			+100 To +280°C		$317.00
	JET-133X	Capillary T'stat Manual Reset IP65	1.8m	+40 To +100°C	Manual Reset	$302.00
	JET-143X			+70 To +130°C		$302.00
	JET-153			+100 To +280°C		$330.00
	WR81.109-2	Capillary T'stat	1.5m	0 To +70°C	1 - 2°C	$255.00
	TH-140	Pocket for all models with an "x"				$53.00

	Catalogue Ref No	Description	Detail	Setting Range	Differential	Trade Price
	JET-31	Industrial T'stat IP65	Dual Setting	0 To +35°C & +10 To +45°C	1°C	$291.00
	JET-40	Room T'stat IP54	External Adj	0 To +35°C	1°C	$255.00
	JET-40F		Internal Adj			$218.00
	JET-41F			0 To +70°C	2°C	$218.00
	JTF-1W	Frost Protection T'stat IP65	6mtr Cap Sensor	-10 To +12°C	-	$377.00
	JTU-50	Duct Thermostat IP40 (LR80 = IP43)	Auto	-25 To +65°C	1.5°C	$302.00
	LR80.108-1		Internal Adj	0 To +35°C	1°C	$202.00
	KR80.100-5	Immersion Thermostat, IP43	Internal Adj	+35 To +95°C	5°C	$202.00
	KR80.108-1			0 To +35°C	1°C	$202.00
	KR80.116-2			0 To +70°C	2°C	$202.00
	PETA75.800	Electronic Temp Control 24VDC	2 Outputs 0-10VDC	+5 To +30°C	0.5°C - 3°C Dead Band	$181.00
	RTBSB-001.010	Room Thermostat	Std Model +On/Off Int Adj +On/Off +Htg LED	1 C/O	+5 To +30°C	0.5°C	$49.00
	RTBSB-001.026						$97.00
	RTBSB-001.910*						$89.00
	RTBSB-001.062						$92.00
	PTR01.082-24	SwBd T'stat DIN Mounting	1 C/O	+10 To +60°C	0.5°C - 2°C Dead Band	$97.00

*Note: Tamperproof

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| Terms and Conditions apply. Subject to change without notice | Prices are GST Exclusive | Items per unit unless otherwise stated |

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Comfort & Environmental Controls, Flow Switches

Humidity Controls

	Catalogue Ref No	Description	Detail	Output	Trade Price
	RFHSB-060.010	Humidistat	30-100% Humidity	-35 To +30°C	$219.00

Radiant Sensors

	Catalogue Ref No	Description	Detail	Output	Trade Price
	STF-4	Radiation Temperature Sensor IP30	-20°C To + 70°C Use 2xNTC 10K Sensors	-	$196.00

Lux Sensors

	Catalogue Ref No	Description	Detail	Output	Trade Price
	RHS 0-10	Ambient Light Level Sensor Indoor	0-20,000 Lux		$333.00
	AHS 0-10-50K	Ambient Light Level Sensor Outdoor IP54	0 - 50,000 Lux	0-10V	$399.00
	AHS 0-10-5K		0 - 5,000 Lux		$318.00

Flow Switches

	Catalogue Ref No	Description	Connection	Max Operating Pressure	Trade Price
	JSF-1E	Flow Switch IP65 c/w SS316 Paddle	1 BSP	8 bar	$274.00
	JSF-1RE (Low Flow)		25-200mm Pipe	5 bar	$274.00
	JSF-2E (SS316)	Flow Switch IP65 c/w SS316 Paddle & Adaptor		13 bar	$895.00
	JSF-3E	Flow Switch IP65 c/w SS316 Paddle	1/2 Tee Connection	5 bar	$448.00
	JSF-4E		3/4 Tee Connection		$448.00

	Catalogue Ref No	Description	Switch On Min	Switch On Max	Switch Off Min	Switch Off Max	Trade Price
	JSL-1E	Air Flow Switch IP65 c/w Sail	1m/s	9.2m/s	1m/s	8.0m/s	$211.00
	JZ-08	Spare 'Sail' For JSL-1E Air Flow Switch					$51.00
	JZ-09	Spare 'Paddle' For JSF-1E Flow Switch					$51.00

Astrel

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Level Sensors

- ¤ Level sensors & control relays for non-metallic storage & processing containers
- ¤ Suitable for residential, commercial & industrial applications
- ¤ Perfect for spa pools

Water Level Sensors

	Catalogue Ref No	Description	Supply Lead	Control Voltage	Trade Price
	PFSELI05C011	LS05 Level Sensor (Use with Astrel controllers)		5VDC Input/output	$94.00
	PFSELI12S001	LS12 Level Sensor (Use with other types of controllers)	1750mm	8-18V	$106.00

Level sensors for adhesive mounting on the outside walls of non-metallic tanks and water containers (eg; ABS or resin construction). The sensor must not be immersed in liquid.
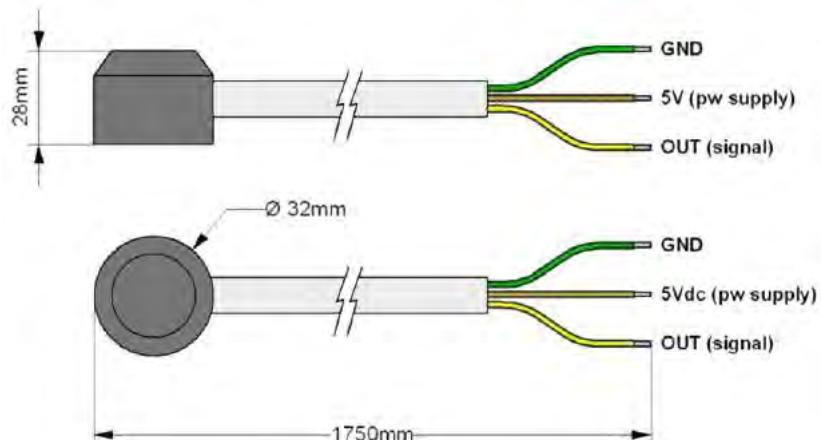
Electronic Water Level Control Relays, IP20

	Catalogue Ref No	Description	17.5mm Modules	Time Delay	Outputs	Control Voltage	Trade Price
	PFAL05U1L001		2M	2secs	1NO (16Amps)		$150.00
		Levtrol Min-Max Control Unit				230VAC	
	PFAL05U2L000		3M	3/10/30 60secs	2NC (16Amps)		$160.00

Electronic water level control for capacitive level switches. Typical application: water level control in compensation tanks (eg; in swimming pools). Built in delay timers avoid false level inputs due to waves or turbulence in the water. Installation into non-metallic tanks (plastic or non-conductive types).

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Huba Control | beck

HVAC Pressure Switches & Transmitters

¤ Differential pressure switches for...
- Cooling-air circuit & air-flow monitoring
- Air & fire damper control
- Filter & fan monitoring
- Overheating protection for fan heaters

Beck Differential Pressure Switches & Accessories

Catalogue Ref No	Description	IP Rating	Contacts	Set Range (pa)	Trade Price
930.80	Differential Pressure Switch Adjustable	IP54	1NO+1NC	20-300	$70.00
930.85				200-1000	$70.00
6555	Connection Kit For 930 Series Pressure Switches including 2m hose				$12.00
6551	Single Pressure Point Nipple				$7.00

Huba Differential Pressure Transmitters
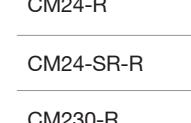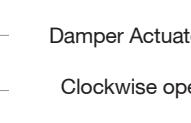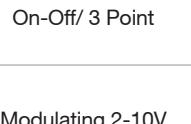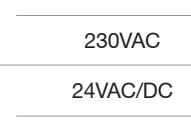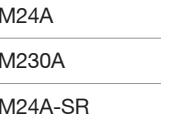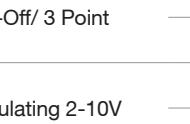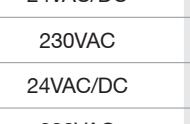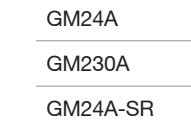
Catalogue Ref No	Description	Control Voltage	Output	Set Range (Pa)	Trade Price
699.911211010	Differential Pressure Transmitter	24VAC	0-10VDC	0-100	$518.00
699.912211040				0-300	$492.00
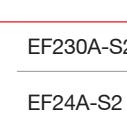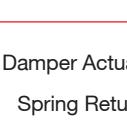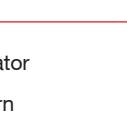
Actuators For Damper Control

- Motorised HVAC shut-off dampers & control dampers
- On-off, 3 point & modulating functions
- 'Form-fit' and universal clamps
- IP54 protection, contact us for the Robustline IP66/67 range
- Supply cable 0.75mm² 2core circular flex (1mtr)

	Catalogue Ref No	Description	Function	Operating Voltage	Trade Price
	CM24-R	Damper Actuator 2Nm IP54 Clockwise operation only	On-Off/ 3 Point	24VAC/DC	$156.00
	CM24-SR-R		Modulating 2-10V		$191.00
	CM230-R		On-Off/ 3 Point	230VAC	$165.00
	LM24A	Damper Actuator 5Nm IP54	On-Off/ 3 Point	24VAC/DC	$173.00
	LM230A			230VAC	$189.00
	LM24A-SR		Modulating 2-10V	24VAC/DC	$247.00
	LM230ASR			230VAC	$280.00
	NM24A	Damper Actuator 10Nm IP54	On-Off/ 3 Point	24VAC/DC	$227.00
	NM230A			230VAC	$243.00
	NM24A-SR		Modulating 2-10V	24VAC/DC	$312.00
	SM24A	Damper Actuator 20Nm IP54	On-Off/ 3 Point	24VAC/DC	$291.00
	SM230A			230VAC	$280.00
	SM24A-SR		Modulating 2-10V	24VAC/DC	$362.00
	SM230ASR			230VAC	$377.00
	GM24A	Damper Actuator 40Nm IP54	On-Off	24VAC/DC	$428.00
	GM230A			230VAC	$458.00
	GM24A-SR		Modulating 2-10V	24VAC/DC	$494.00

Mechanical Fail Safe (Spring Return) Damper Actuators

	Catalogue Ref No	Description	Function	Operating Voltage	Trade Price
	TF24	Damper Actuator Spring Ret 2Nm	On-Off	24VAC/DC Universal	$239.00
	TF230			230VAC	$254.00
	LF24	Damper Actuator Spring Ret 4Nm		24VAC/DC	$311.00
	LF230			230VAC	$329.00
	NFA	Damper Actuator Spring Return 10Nm	On-Off	24-230VAC	$399.00
	NF24A-SR		Modulating 2-10V	24VAC/DC	$466.00
	SFA	Damper Actuator Spring Return 20Nm	On-Off	24-230VAC	$464.00
	SF24A-SR		Modulating 2-10V	24VAC/DC	$588.00
	EF230A-S2	Damper Actuator Spring Return 30Nm	On-Off	230VAC	$948.00
	EF24A-S2			24VAC/DC	$884.00
	EF24A-SR		Modulating 2-10V		$884.00

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Auxiliary Switch Modules

	Catalogue Ref No	Description	Operating Voltage	Detail	Trade Price
	S1A			1 x SPDT	**$74.00**
		Auxiliary Switch For Standard Actuators	N/A		
	S2A			2 x SPDT	**$102.00**
	S2A-F	Auxiliary Switch For Spring Return Actuators		2 x SPDT	**$97.00**

Linear Actuators

	Catalogue Ref No	Description	Operating Voltage	Detail	Trade Price
	SHU24100	Damper Actuator Linear 100mm On-Off 3 Point 450N			$308.00
	SHU24-SR-100	Modulating Damper Actuator Linear 100mm 450N 2-10V	24VAC/DC		$349.00

Contact us for details of the comprehensive range of Belimo 'Robustline' IP66 and IP67, fire and smoke damper actuators.

Engineered solutions are available for the replacement of most brands of obsolete damper actuators and customised applications.

Belimo Automation AG.

Actuators for HVAC systems; Belimo has been designing, manufacturing and marketing electric actuators for motorized control devices in heating, ventilating and air-conditioning systems since 1975. The company's innovative, high-class technology ensures trouble free operation for all kinds of HVAC control devices. This not only means greater comfort and convenience, of course, but also greater safety for property and the occupants of buildings.

BELIMO®

5 year warranty	On site around the globe	Complete product range	Tested Quality	Short Delivery Time	Comprehensive Support

Ball Valves Open-Closed

	Catalogue Ref No	Description	Pipe Diameter	Flow Rate	Trade Price
	R2015-S1		DN15	Kvs8.6	$74.00
	R2020-S1		DN20	Kvs15	$81.00
	R2025-S2	Valve 2 Port Open-Closed Screwed	DN25	Kvs26	$109.00
	R2032-S2		DN32	Kvs26	$144.00
	R2040-S2		DN40	Kvs31	$155.00
	R2050-S3		DN50	Kvs49	$214.00
	R3015-S1		DN15	Kvs15	$141.00
	R3020-S2		DN20	Kvs32	$179.00
	R3025-S2	Valve 3 Port Open-Closed Screwed	DN25	Kvs26	$214.00
	R3040-S3		DN40	Kvs31	$357.00
	R3050-S4		DN50	Kvs49	$455.00

Ball Valves Characterised

	Catalogue Ref No	Description	Pipe Diameter	Flow Rate	Trade Price
	R2015-P63-S1		DN15	Kvs0.6	$80.00
	R2015-1P6-S1		DN15	Kvs1.6	$80.00
	R2015-2P5-S1		DN15	Kvs2.5	$80.00
	R2015-4-S1	Valve 2 Port Control Screwed	DN15	Kvs4.0	$80.00
	R2020-6P3-S1		DN20	Kvs6.3	$88.00
	R2025-10-S2		DN25	Kvs10	$115.00
	R2032-16-S3		DN32	Kvs16	$150.00
	R3015-BL1		DN15	Kvs5.5	$88.00
	R3020-BL2		DN20	Kvs11	$109.00
	R3025-BL2	Valve 3 'L' Port Open-Closed Screwed	DN25	Kvs10	$134.00
	R3040-BL3		DN40	Kvs14	$236.00
	R3050-BL3		DN50	Kvs24	$294.00
	R3015-P63-S1		DN15	Kvs0.6	$147.00
	R3015-1-S1		DN15	Kvs1.0	$147.00
	R3015-1P6-S1		DN15	Kvs1.6	$147.00
	R3020-4-S1		DN20	Kvs4.0	$181.00
	R3020-6P3-S1	Valve 3 Port Control Screwed	DN20	Kvs6.3	$181.00
	R3025-6P3-S2		DN25	Kvs6.3	$219.00
	R3032-10-S2		DN32	Kvs10	$268.00
	R3040-16-S3		DN40	Kvs16	$362.00
	R3050-25-S4		DN50	Kvs25	$461.00

Note: *Additional Kvs models available on request*

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Actuators For Ball Valves

	Catalogue Ref No	Description	Valve Size	Operating Voltage	Trade Price
	TR24	Valve 3 Point	DN15 & DN20	24VAC/DC	$155.00
	TR230-3			230VAC/DC	$158.00
	TR24-SR	Modulating Actuator 0-10V		24VAC/DC	$214.00
	LR24A	Valve Actuator On/Off Or 3 Point	DN25	24VAC/DC	$189.00
	LR230A			230VAC/DC	$206.00
	LR24A-SR	Modulating Actuator 0-10V		24VAC/DC	$254.00
	NR24A	Valve Actuator On/Off Or 3 Point	DN32 & DN40	24VAC/DC	$247.00
	NR230A			230VAC/DC	$259.00
	NR24A-SR	Modulating Actuator 0-10V		24VAC/DC	$337.00
	SR24A	Valve Actuator On/Off Or 3 Point	DN50 & DN80	24VAC/DC	$296.00
	SR230A			230VAC/DC	$312.00
	SR24A-SR	Modulating Actuator 0-10V		24VAC/DC	$377.00
	GR24A...	Valve Actuator On/Off Or 3 Point **FO5 & FO7 Versions**	DN100 & DN150	24VAC/DC	$492.00
	GR230A...			230VAC/DC	$524.00
	GR24A-SR...	Modulating Actuator 0-10V **FO5 & FO7 Versions**		24VAC/DC	$572.00

Note: Where "..." is present multiple versions are available

Retrofit Valve Actuator Solutions

	Catalogue Ref No	Description		Operating Voltage	Trade Price
	NV24A-MP-RE	Universal Globe Actuator	-	24VAC/DC	$642.00
	EV24A-SZ-TPC	Globe Valve Acutator	-	-	$809.00

Large Control & Open-Close Valves

	Catalogue Ref No	Description	Pipe Size	Flow Rate	Trade Price
	R679AO	Valve 2 Port Control Flanged	DN80	Kvs100	$666.00
	R6099AO		DN100	Kvs140	$1,205.00
	R665AO	Valve 2 Port Open-Closed Flanged	DN65	Kvs120	$524.00
	R680AO		DN80	Kvs180	$629.00

Butterfly Valves, Wafer, Nylon Coated Disc

	Catalogue Ref No	Description	Size	Flow Rate	Trade Price
	BU650		50mm		$132.00
	BU665		65mm		$150.00
	BU680		80mm		$164.00
	BU6100	Butterfly Valve On/Off	100mm	-	$174.00
	BU6125		125mm		$230.00
	BU6150		150mm		$373.00
	BU6200		200mm		$573.00

Notes: *Larger sizes, lugged versions and stainless steel disc models are available on request. Modulating, 3 point, 24VAC & 230VAC actuators available.*

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Pressure Independent Control Valves
(With Modulating 24VAC/DC Operating Voltage & 2-10VDC Modulating Control)

Catalogue Ref No	Description	Pipe Size	Flow Rate l/S	Trade Price
C215QPT-B	PIQCV 2-port Pressure Independent Control Valves (screwed with PT ports)	DN15	0.005 - 0.058	$170.00
C215QPT-D		DN15	0.012 - 0.120	$170.00
C220QPT-F		DN20	0.028 - 0.27	$236.00
C220QPT-G		DN20	0.058 - 0.583	$311.00
CQ24A	Valve Actuator	24V, On-Off/ 3 point	-	-	$110.00
CQ24A-SR		24V, 2-10V Modulating	-	-	$115.00
EP015R+MP	EPIV 2-port Electronic Pressure Independent Control Valves (screwed, including actuator)	DN15	0.105 - 0.35	$695.00
EP020R+MP		DN20	0.195 - 0.65	$743.00
EP025R+MP		DN25	0.345 - 1.15	$780.00
EP032R+MP		DN32	0.64 - 1.80	$928.00
EP040R+MP		DN40	0.75 - 2.50	$969.00
EP050R+MP		DN50	1.44 - 4.80	$1,133.00
EP050R+MP-N		DN50	1.89 - 6.30	$1,244.00
P6065W800E-MP	EPIV 2-port Electronic Pressure Independent Control Valves (flanged, including actuator)	DN65	2.40 - 8.00	$4,492.00
P6080W1100E-MP		DN80	3.40 - 11.33	$4,810.00
P6100W2000E-MP		DN100	6.00 - 20.00	$5,488.00
P6125W3100E-MP		DN125	9.37 - 31.25	$6,670.00
P6150W4500E-MP		DN150	13.5 - 45.00	$7,485.00

Cross Section of PIQCV
BELIMO®
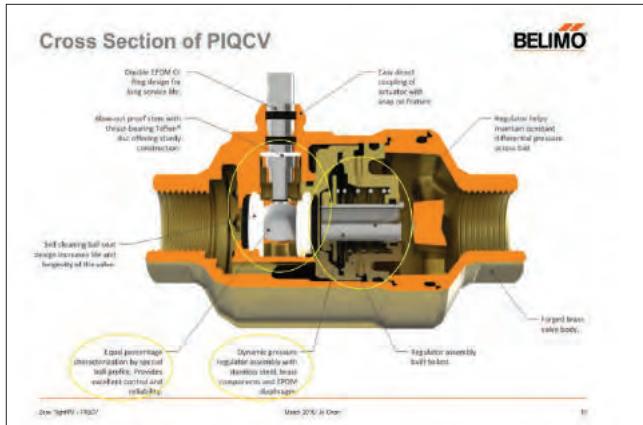
The **Pressure Independent Control Valve** consists of a differential pressure regulator in series with a control valve.
The key to the PICV is the regulator assembly. This regulator controls the amount of flow that passes through the valve by the use of a diaphram that moves
according to the change in pressure above and below it.

All pressure changes are absorbed by the pressure regulator allowing the differential pressure to be held constant over the control valve section thereby giving the same flow.

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5 year warranty | On site around the globe | Complete product range | Tested Quality (SWISS) | Short Delivery Time | www Comprehensive Support

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Industrial Switchgear

¤ Manual motor circuit breakers to 100amps
¤ Contactors, high temperature, heavy duty
¤ Modular contactors for distribution board mounting
¤ Loadbreak & rotary cam switches
¤ Push buttons 22mm Ø IP66

M4 Manual Motor Circuit Breakers

Catalogue Ref No	Description	Release		Motor AC-3 kW	Trade Price
		Thermal	Instant		
M4-32R-0.16		0.1 - 0.16A	2.1A	-	$243.00
M4-32R-0.25		0.16 - 0.25A	3.3A	0.06	$243.00
M4-32R-0.40		0.25 - 0.4A	5.2A	0.09	$243.00
M4-32R-0.63		0.4 - 0.63A	8.2A	0.18	$243.00
M4-32R-1		0.63 - 1.0A	13.0A	0.25	$264.00
M4-32R-1.6		1.0 - 1.6A	20.8A	0.50	$264.00
M4-32R-2.5		1.6 - 2.5A	32.5A	0.75	$267.00
M4-32R-4	Manual Motor Circuit Breaker Rotary Switch Type - 32Amp Frame	2.5 - 4.0A	52.0A	1.50	$267.00
M4-32R-6		4.0 - 6.0A	78.0A	2.20	$267.00
M4-32R-8		5.0 - 8.0A	104A	3.50	$267.00
M4-32R-10		6.0 - 10A	130A	4.60	$298.00
M4-32R-13		9.0 - 13A	169A	5.50	$298.00
M4-32R-17		11 - 17A	221A	7.50	$298.00
M4-32R-22		14 - 22A	286A	7.50	$330.00
M4-32R-26		18 - 26A	338A	11.0	$377.00
M4-32R-32		22 - 32A	416A	15.0	$377.00
M4-63R-26		18-26A	338A	11.0	$625.00
M4-63R-32		22-32A	416A	15.0	$704.00
M4-63R-40	Manual Motor Circuit Breaker Rotary Switch Type - 63Amp Frame	28-40A	520A	18.5	$704.00
M4-63R-50		34-50A	650A	22.0	$793.00
M4-63R-63		45-63A	819A	30.0	$793.00
M4-100R-63		45-63A	819A	30.0	$968.00
M4-100R-75	Manual Motor Circuit Breaker Rotary Switch Type - 100Amp Frame	55-75A	975A	37.0	$1,066.00
M4-100R-90		70-90A	1170A	45.0	$1,142.00
M4-100R-100		80-100A	1300A	-	$1,260.00

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Phase Bar System

Catalogue Ref No	Description	Format	Detail	Trade Price
M4 32 S3	Phase Bar For 3 MMCB's			$50.00
M4 32 S4	Phase Bar For 4 MMCB's	3 Pole	25mm²	$55.00
M4 32 S5	Phase Bar For 5 MMCB's			$61.00

MMCB Accessories

Catalogue Ref No	Description	Format	Detail	Trade Price
M4 HQ11		1NO+1NC	Centre	$44.00
M4 HQ20		2NO		$44.00
M4 HS11	Auxiliary Contact Block	1NO+1NC		$44.00
M4-HS20		2NO	Left Hand Side	$44.00
M4-HS02		2NC		$44.00
M4-MA11	Trip Indicating Auxiliary Contact	1NO+1NC		$75.00
M4-U24	Under-Voltage Release	24VAC		$126.00
M4-U230		230VAC	Right Hand Side Mtg	$126.00
M4-A230	Shunt Trip	230VAC		$126.00
M4 32R PFHN4	Plastic Enclosure IP65	Red/Ylw	Surface	$112.00
M4 32R PFH4		Blk/Grey		$96.00
M4 32 SEV	Connection Block - Pin Type	3 Pole	25mm²	$42.00
M4 32 SE	Connection Block - Fork Type			$42.00
M4 32 VK1	Link Module M4 32 To K1 Contactor			$33.00
M4 32 VK3	Link Module M4 32 To K3 Contactor			$36.00

K0 Series Mirco Contactors

Catalogue Ref No	Description	Auxiliary Contact	Control Voltage	AC3 kW 400V	AC3 Current	Trade Price
K0-05D01 230		1NC	220-240VAC			$71.00
K0-05D01 24			24VDC			$71.00
K0-05D10 230	Micro Contactor		220-240VAC	2.2kW	5 Amps	$71.00
K0-05D10 24		1NO	24VDC			$71.00
K0-05D10=24			24VDC Coil	-		$91.00

Relay-size **contactor,** smallest in the world!

Micro-Contactor K0   Mini-Contactor K1   Contactor K3

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K1 Series Miniature Contactors

Catalogue Ref No	Description	Auxiliary Contact	Control Voltage	AC3 kW 400V	AC3 Current	Trade Price
K1-09D10 24			24VAC			$87.00
K1-09D10 230			230VAC	4Kw	9Amps	$87.00
K1-09D10=24			24VDC			$100.00
K1-12D10 24		1NO	24VAC			$106.00
K1-12D10 230			230VAC	5.5Kw	12Amps	$106.00
K1-12D10=24	Mini-Contactor		24VDC			$125.00
K1-09D01 24			24VAC			$87.00
K1-09D01 230			230VAC	4Kw	9Amps	$87.00
K1-09D01=24			24VDC			$100.00
K1-12D01 24		1NC	24VAC			$100.00
K1-12D01 230			230VAC	5.5Kw	12Amps	$106.00
K1-12D01=24			24VDC			$125.00

K1 Contactor Accessories

Catalogue Ref No	Description	Contactor Types	Mounting	Detail	Trade Price
HK40				4NO	$46.00
HKM 02	Auxiliary Contact Block	Fits All K1 Contactors	Top	2NC	$26.00
HKM 11				1NO+1NC	$26.00
HKM 22				2NO+2NC	$44.00

Miniature Thermal Overloads For K1 Series Contactors

Catalogue Ref No	Description	Auxiliary Contact	Overload Setting Range	Trade Price
U12/16E 0.18 K1			0.12 - 0.18Amps	$122.00
U12/16E 0.27 K1			0.18 - 0.27Amps	$122.00
U12/16E 0.4 K1			0.27 - 0.40Amps	$122.00
U12/16E 0.6 K1			0.40 - 0.60Amps	$122.00
U12/16E 0.9 K1			0.60 - 0.9Amps	$122.00
U12/16E 1.2 K1			0.80 - 1.2Amps	$122.00
U12/16E 1.8 K1	Miniature Thermal Overload	1NO+ 1NC	1.2 - 1.8Amps	$122.00
U12/16E 2.7 K1			1.8 - 2.7Amps	$129.00
U12/16E 4 K1			2.7 - 4.0Amps	$129.00
U12/16E 6 K1			4 - 6Amps	$129.00
U12/16E 9 K1			6 - 9Amps	$148.00
U12/16E 11 K1			8 - 11Amps	$148.00
U12/16E 14 K1			10 - 14Amps	$148.00
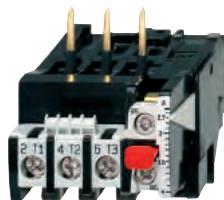
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K3 High Temp/Heavy Duty Compact Contactors & DOL Starters

Catalogue Ref No	Description	Control Voltage	AC3 kW 400V	AC3 Current	Trade Price
K3-10ND10...	Contactor 1NO *NEW TYPE*		4kW	10A	**$106.00**
K3-14ND10...			5.5kW	14A	**$117.00**
K3-18ND10...			7.5kW	18A	**$152.00**
K3-22ND10...			11kW	22A	**$195.00**
K3-10ND01...	Contactor 1NC *NEW TYPE*		4kW	10A	**$106.00**
K3-14ND01...			5.5kW	14A	**$117.00**
K3-18ND01...			7.5kW	18A	**$152.00**
K3-22ND01...			11kW	22A	**$195.00**
K3-24A00 230...	Contactor	AC Frame Please Specify Required Control Voltage	11kW	24A	**$211.00**
K3-32A00...			15kW	32A	**$287.00**
K3-40A00...			18.5kW	40A	**$338.00**
K3-50A00...			22kW	50A	**$451.00**
K3-62A00...			30kW	62A	**$599.00**
K3-74A00...			37kW	74A	**$732.00**
K3-90A00...			45kW	90A	**$969.00**
K3-115A00...			55kW	115A	**$1,234.00**
K3-151A00 230...			75kW	150A	**$1,575.00**
K3-176A00 230...			90kW	175A	**$1,978.00**
K3-18NK01 230	Contactor - Capacitive Switching		12kVAr 3 phase 400V		**$307.00**
K3-24K00 230...			20kVAr 3 phase 400V		**$385.00**
K3-32K00 230...			25kVAr 3 phase 400V		**$467.00**
K3-50K00 230...			33kVAr 3 phase 400V		**$668.00**
K3-62K00...			50kVAr 3 phase 400V		**$845.00**
K3-74K00 230...			75kVAr 3 phase 400V		**$989.00**

DOL Motor Starters, Pre-Wired, Fully Enclosed, IP65. Thermal Overloads

Catalogue Ref No	Description	Control Voltage	AC3 kW 400V	AC3 Current	Trade Price
P1T10...	DOL Motor Starter	AC Frame Please Specify AC Voltage	4kW	9A	**$193.00**
P1T18...			7.5kW	16A	**$243.00**
U12/16E 1.2 K3	Thermal Overload Relay for K3 DOL			0.8 - 1.2A	**$122.00**
U12/16E 1.8 K3				1.2 - 1.8A	**$122.00**
U12/16E 2.7 K3				1.8 - 2.7A	**$129.00**
U12/16E 4 K3				2.7 - 4A	**$129.00**
U12/16E 6 K3				4 - 6A	**$129.00**
U12/16E 9 K3				6 - 9A	**$148.00**
U12/16E 11 K3				8 - 11A	**$148.00**
U12/16E 14 K3				10 - 14A	**$148.00**
U12/16E 18 K3				13 - 18A	**$148.00**

Note: Where "**...**" is present add required coil voltage to codes.

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## Auxiliary Contact Blocks

	Catalogue Ref No	Description	Contactor Types	Mounting	Detail	Trade Price
	HA10	Aux Contact Block Standard Type	Fits All K3 Contactors	Top	1NO	$21.00
	HA01				1NC	$21.00
	HB11		K3-24 / K3-115	Side	1NO+1NC	$39.00
	HN10	Aux Contact Block PLC Type	Fits All K3 Contactors	Fits All K3 Contactors	1NO	$20.00
	HN01				1NC	$20.00

Mechanical Interlocks

	Catalogue Ref No	Description	Contactor Types	Mounting	Detail	Trade Price
	LG 10889	Mechanical Interlock	K3-10 / K3-40	Side	-	$18.00
	LG 10890		K3-50 / K3-74		-	$63.00
	LG 8511		K3-65 / K3-115		-	$133.00
	LG10397H		K3-150 / K3-175		-	$137.00
	LG10398H		K3-200		-	$272.00

Contactor Coils

	Catalogue Ref No	Description	Contactor Types	Detail	Operating Voltage	Trade Price
	K10N/4...	Replacement Contactor Coils	K3-10N...K3-22N	AC Operation Only*	12/24/ 110/230/ 415VAC (Specify)	$58.00
	K3-6/4...		K3-10...K3-22			$50.00
	K24/4...		K3-24...K3-40			$48.00
	K45/4...		K3-50...K3-74			$60.00
	K3-115/4...		K3-90...K3-115			$146.00

*Please enquire for DC contactors & coils

Coil Suppressor Units

	Catalogue Ref No	Description	Contactor Types	Detail	Operating Voltage	Trade Price
	K2-E24	Coil Suppressor Units	K3-10 To K3-22	Varistor	12-24VAC/DC	$25.00
	K2-E230				110-230VAC/DC	$25.00
	RC-K3 24		K3-10 To K3-74	RC	12-24VAC/DC	$52.00
	RC-K3 230				110-230VAC/DC	$41.00
	RC-K3N 24		New Type K3-10N To K3-22N	RC	12-24VAC/DC	$52.00
	RC-K3N 230				110-230VAC/DC	$41.00

Thermal Overloads For K3 Series Contactors / DOL Motor Starters

	Catalogue Ref No	Description	Auxiliary Contact	Contactor (Up To)	Setting Range	Trade Price
	U3/32 0.18				0.12 - 0.18A	**$146.00**
	U3/32 0.27				0.18 - 0.27A	**$146.00**
	U3/32 0.4				0.27 - 0.40A	**$146.00**
	U3/32 0.6				0.40 - 0.60A	**$146.00**
	U3/32 0.9				0.60 - 0.9A	**$146.00**
	U3/32 1.2			K3-10ND...	0.80 - 1.2A	**$146.00**
	U3/32 1.8				1.2 - 1.8A	**$146.00**
	U3/32 2.7				1.8 - 2.7A	**$146.00**
	U3/32 4				2.7 - 4.0A	**$146.00**
	U3/32 6				4 - 6A	**$146.00**
	U3/32 9				6 - 9A	**$154.00**
	U3/32 11				8 - 11A	**$154.00**
	U3/32 14	Thermal Overload For K3 Contactors	1NO+ 1NC	K3-14ND...	10 - 14A	**$154.00**
	U3/32 18			K3-18ND...	13 - 18A	**$154.00**
	U3/32 24			K3-22A...	17 - 24A	**$154.00**
	U3/32 32			K3-32A...	23 - 32A	**$238.00**
	U3/42 14				10 - 14A	**$208.00**
	U3/42 20			K3-24A00	14 - 20A	**$208.00**
	U3/42 28				20 - 28A	**$208.00**
	U3/42 42			K3-32A00	28 - 42A	**$208.00**
	U3/74 28				20 - 28A	**$323.00**
	U3/74 42			K3-50A00	28 - 42A	**$323.00**
	U3/74 52				40 - 52A	**$323.00**
	U3/74 65				52 - 65A	**$323.00**
	U3/74 74			K3-74A00	60 - 74A	**$332.00**
	U3/32SM	Separate Mounting Bracket	-	-	-	**$25.00**

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Modular (MCB Style) Contactors

Catalogue Ref No	Description	17.5mm Modules	Current AC-1 A	Contacts	Control Voltage	Trade Price
R20-11 24				1NO+1NC	24VAC	$95.00
R20-11 230					230VAC	$95.00
R20-02 230			20 Amps	2NC		$95.00
R20-20 24				2NO	24VAC	$95.00
R20-20 230						$87.00
R25-02 230		1M			230VAC	$99.00
R25-11 230						$99.00
R25-20 230			25Amps			$90.00
R25-02 24						$112.00
R25-11 24	Modular Contactor (MCB Style) To DIN43880 IP20				24VAC	$106.00
R25-20 24						$102.00
R25-04 230				4NC		$121.00
R25-13 230				1NO+3NC	230VAC	$121.00
R25-22-230		2M	25 Amps	2NO+2NC		$121.00
R25-31 230				3NO+1NC		$121.00
R25-40 24					24VAC	$121.00
R25-40 230						$100.00
R40-40 230			40A	4NO	230VAC	$203.00
R63-40 230		3M	63A			$257.00
RH11	Auxiliary Contact Block For MCB Style Contacts 1NO+1NC					$73.00
P750	Heat Dissipation Insert For Contactors (0.5M) 8.75mm					$9.00

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Switch Disconnectors IP65 Panel Mount

	Catalogue Ref No	Description	Legend	Current AC21	Poles	Colour	Trade Price
	LTS20 E A3			20A			$52.00
	LTS25 E A3			25A			$74.00
	LTS32 E A3	Loadbreak Switches IP65 Base Mount	0 - I	32A	3 Pole	Black/Silver	$89.00
	LTS40 E A3			40A			$107.00
	LTS63 E A3			63A			$128.00

Switch Disconnectors Lockable IP65 Panel Mount

	Catalogue Ref No	Description	Legend	Current AC21	Poles	Colour	Trade Price
	LTS20 EH1 A3			20A			$58.00
	LTS25 EH1 A3			25A			$79.00
	LTS32 EH1 A3	Loadbreak Switches Lockable IP65 Panel Mount	0 - I	32A	3 Pole	Black/Silver	$95.00
	LTS40 EH1 A3			40A			$114.00
	LTS63 EH1 A3			63A			$134.00

Emergency Stop Mains Switch Lockable IP65 Panel Mount

	Catalogue Ref No	Description	Legend	Current AC21	Poles	Colour	Trade Price
	LTS20 EHN4 A3			20A			$67.00
	LTS25 EHN4 A3			25A			$88.00
	LTS32 EHN4 A3	Loadbreak Switches Lockable IP65 Panel Mount	0 - I	32A	3 Pole	Red/Yellow	$109.00
	LTS40 EHN4 A3			40A			$123.00
	LTS63 EHN4 A3			63A			$144.00
	LTS80 EHN4 A3			80A			$196.00

Emergency Stop Mains Switch Lockable IP65 Base Mount c/w Door Clutch

	Catalogue Ref No	Description	Legend	Current AC21	Poles	Colour	Trade Price
	LTS20 VZVHN4 A3			20A			$101.00
	LTS25 VZVHN4 A3			25A			$122.00
	LTS32 VZVHN4 A3	Loadbreak Switches Lockable IP65 Base Mount	0 - I	32A	3 Pole	Red/Yellow	$137.00
	LTS40 VZVHN4 A3			40A			$157.00
	LTS63 VZVHN4 A3			63A			$216.00
	LTS80 VZVHN4 A3			80A			$230.00

Enclosed Lockable Maintenance & Safety Switches IP65 - UV Protected

	Catalogue Ref No	Description	Legend	Current AC21	Poles	Colour	Trade Price
	LTS20 PFHN4 A3			20A			$109.00
	LTS25 PFHN4 A3			25A			$115.00
	LTS32 PFHN4 A3	Enclosed Loadbreak Switches Lockable IP65	0 - I	32A	3 Pole	Red/Yellow	$149.00
	LTS40 PFHN4 A3			40A			$194.00
	LTS63 PFHN4 A3			63A			$233.00
	LTS80 PFHN4 A3			80A			$338.00

DC Isolators for PV Panels

	Catalogue Ref No	Description	Poles	Trade Price
	LS16 PFLH4 A2	PV Isolator 16A at 600VDC Enclosed	2 Pole	$153.00
	LS16 PFLH4 A4		4 Pole	$164.00

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Miniature Off-On Cam Switches Standard Handle 16mm Mounting - IP65

	Catalogue Ref No	Base Mtg	Legend Plate	Current AC-21 Amps	Poles	Trade Price
	M4H Z A1+003	Mini Off-On Cam Switch	0 - I	10Amps	1	$71.00
	M4H Z A3+003		30mm		3	$90.00

Mini Change Over Cam Switches Standard Handle 16mm Mounting - IP65

	M4H Z U1+006	Mini Cam Sw Changeover	I - 0 - 2	10Amps	1	$84.00
	M4H Z U3+006		30mm		3	$131.00
	M4H Z U1+088		MAN-OFF-AUTO		1	$84.00
	M4H Z U3+088		30mm		3	$131.00

Mini Cam Switches Key Operated 16mm Mounting - IP65

	M4H Z A1+SA2	Off-On	0 - I	10Amps	1	$102.00
	M4H Z U1+SA2	Changeover	MAN-OFF-AUTO			$145.00

Off-On Cam Switches Standard Handle 22mm Mounting - IP65

	M10H Z A1+003	Off-On Cam Switch	0 - I	20Amps	1	$62.00
	M10H Z A3+003		48mm		3	$93.00

Changeover & Multistep Cam Switches Std Handle 22mm Panel Mtg - IP65

	M10H Z U1+006	Changeover Cam Switch 20Amps	I - 0 - 2	20Amps	1	$73.00
	M10H Z U3+006		48mm		3	$114.00
	M10H Z U1+088		MAN-OFF-AUTO		1	$73.00
	M10H Z U3+088		48mm		3	$114.00
	M10H Z U1+008		FOR-OFF-REV		1	$73.00
	M10H Z U3+008		48mm		3	$114.00
	M10H Z W1+G2+132	Multistep Cam Switch No Off	48mm 60°	1 - 2		1	$64.00
	M10H Z ST31+G2			1 - 2 - 3			$71.00
	M10H Z ST41+G2+1234		45°	1-2-3-4			$86.00

Instrumentation Cam Switches Standard Handle 22mm Panel Mtg - IP65

	M10H Z M31+242+503	Ammeter Switch	L1, L2, L3 48mm			$126.00
	M10H Z V1+249+504	Voltmeter Switch	Phase/Phase & Ph/N 48mm	20Amps	1	$129.00
	M10H Z V3+243+504		Phase/Phase 48mm			$129.00

Miscellaneous Cam Switches

	M10H Z 556H SPEC	IR33 Dairy Vat Selector Switch	5 Position Selector 48mm	20Amps	1	$182.00

Push Button Operators 22mm Mounting - IP67

	Catalogue Ref No	Description	Operation	Colour	Trade Price
	B3D RT	Flush Push Button Operator Only Std Head	Impulse (Spring Return)	Red	$20.00
	B3D GN			Green	$20.00
	B3DSW			Black	$20.00
	B3D BL	Modular System - add contact holder & PB contacts		Blue	$20.00
	B3D GE			Yellow	$20.00
	B3D WS			White	$20.00
	B3DL RT	Illuminated Flush Push Button Operator Only Std Head	Impulse (Spring Return)	Red	$26.00
	B3DL GN			Green	$26.00
	B3DL BL	Modular System - add contact holder, PB contacts & lamp block		Blue	$26.00
	B3DL GE			Yellow	$26.00
	B3DL WS			White	$26.00

Indicator Lights 22mm Mounting - IP67

	Catalogue Ref No	Description	Operation	Colour	Trade Price
	B3MB24 RT	Indicator Lights	High Performance LED 24VAC/DC	Red	$45.00
	B3MB24 GN			Green	$45.00
	B3MB24 BL			Blue	$45.00
	B3MB24 GE	Mono Block - complete units		Yellow	$45.00
	B3MB24 WS			White	$45.00
	B3MB24 KL			Clear	$45.00
	B3MB230 RT	Indicator Lights	High Performance LED 230VAC/DC	Red	$45.00
	B3MB230 GN			Green	$45.00
	B3MB230 BL			Blue	$45.00
	B3MB230 GE	Mono Block - complete units		Yellow	$45.00
	B3MB230 WS			White	$45.00
	B3MB230 KL			Clear	$45.00

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Push Button Selector & Key Switches 22mm Mounting - IP65

Catalogue Ref No	Description	Operation		Colour	Trade Price
B3KN2	Selector Switch	2 Position	Latched	Black	$38.00
B3KN8			Spring Return		$38.00
B3KN3	Knob style operator, add contact holder & contacts to complete	3 Position	Latched		$38.00
B3KN6			Spring Return - Left		$38.00
B3KN7			Spring Return - Right		$38.00
B3KN1			Spring Return - Both		$38.00
B3SAT	Key removable in 'OFF' position only, add contact holder & contacts to complete	2 Position	Spring Return	Black	$95.00
B3SARR0		3 Position	Latched		$95.00
B3SATT0			Spring Return - Both		$95.00
B3SAR 0	Key Switch	2 Position	Latched	Black	$90.00
B3SAR 01					$95.00
B3SAR102	Key removable in latched pos only, add holder & contacts	3 Position			$95.00
B3SATR02			Spring Return - Left		$95.00

Reset Push Buttons

B3GRB-31.5	Flush PB Operator + O/L Extn Reset Rod	19.5 - 38.5mm Rod		Blue	$38.00
B3GRB-60		38.5 - 60mm Rod			$38.00

Emergency Stop Operators

B3P34RT-0	Emergency Push Button Operator Only - 40mm	Rotolock - Twist Release		40mm	$32.00
BS3P44S3		Key Release		Red	$134.00

Emergency Stop Switches - Complete

BG10P34-11	Emergency Push Button Enclosed - 40mm	1NO + 1NC		40mm Red Rotolock	$123.00
BG10P44S3-11	Key Emergency Push Button Enclosed - 40mm			40mm Key Red	$187.00
BG10P34P-11	Emergency Push Button Enclosed - 70mm			70mm Red Rotolock	$184.00

COMPLETE UNIT =	Operator + Contact Holder + Contact Blocks

Push Button & Lamp Holder Contacts

	Catalogue Ref No	Description	Operating Voltage	Detail	Trade Price
	B3M	PB Contact Connector Screw type	-	-	$8.00
	B3S	Contact Block & Lampholder Clip	-	3 Way	$8.00
	B3T10			1NO	$18.00
	B3T01	Push Button Contact Block	690VAC	1NC	$18.00
	B3F	Lampholder Contact Block Ba9s	Direct Voltage	-	$16.00

LED Lamps - Longlife

	Catalogue Ref No	Description	Operating Voltage	Detail	Trade Price
	B3-L230RTB			Red	$26.00
	B3-L230GNB			Green	$26.00
	B3-L230BLB	LED Lamp Longlife (10 Years) Ba9s	170-250V AC/DC	Blue	$26.00
	B3-L230GEB			Yellow	$26.00
	B3-L230WSB			White	$26.00

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Test, Measurement And Safety Instruments

¤ Voltage & continuity probe testers
¤ Digital multimeters, auto ranging
¤ Digital clamp meters to 1000Amps
¤ Insulation and installation testers

	Catalogue Ref No	Description	Features	Measure Category	Voltage Range	Trade Price
	PROFIPOL +		Handyman Safety Tester IP65	-	6-400V AC/DC	**$118.00**
	DUSPOL ANALOG V2	Tradesman's Probe Testers	12 To 1000V - IP65	Cat IV 600V	12-1000V AC/DC	**$144.00**
	DUSPOL ANALOG V2 +2M		12 To 1000V - IP65 with 2 Mtr lead	Cat IV 600V	12-1000V AC/DC	**$159.00**
	DUSPOL EXPERT V2		Load Connection + Phase Sequence LED + Vibrating Alarm & Torch IP65	Cat IV 600V	12-1000V AC/DC	**$171.00**
	DUSPOL DIGITAL V2	Voltage Tester + Continuity	Digital Tester + Torch & Vibrate Alarm IP65	Cat IV 500V	1.0 -1000V/ 1200V DC	**$259.00**
	DUSPOL DIGITAL V2+2M		Load Connection + Phase Sequence LED + Vibrating Alarm & Torch IP65 2 Mtr Lead	Cat IV 600V	1.0 -1000V/ 1200V DC	**$276.00**
	TRITEST easy	Non-Contact Voltage Tester	with Phase Rotation		200 - 1000 VAC	**$86.00**
	DUSPOL CARRY CASE	Case Accessory	Nylon Carry Case with Velcro	-		**$54.00**

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Digital Multimeters, True RMS, Cat III/IV

Catalogue Ref No	Voltage AC / DC		Current AC / DC		Continuity	Resistance	Trade Price
	Frequency		Capacitance		Diode	Temperature	
	Memory		Software	Data Log	RMS	Measure Cat	
BENN MM P3	0.1mV - 600V		-	-	✓	0.1Ω-40MΩ	$88.00
	1mHz/5mHz		10pF/100µF		✓	-	
	HOLD		-	-	✓	Cat III 300V	
BENN MM1-2 Auto Ranging	.1mV-750V	.1mV-1KV	1mA - 10A		✓	0.1Ω-20MΩ	$169.00
	1Hz/20MHz		1pF/2mF		✓	-	
	HOLD, MAX/MIN		-	-	✓	Cat III 600V	
BENN MM1-3 Auto Ranging	.1mV-750V	.1mV-1KV	1mA - 10A		✓	0.1Ω-20MΩ	$203.00
	1Hz/20MHz		1pF/2mF		✓	-20/+800°C	
	HOLD, MAX/MIN		-	-	✓	Cat III 600V	
BENN MM4	0.1mV - 600V		0.1 A – 300 A		✓	0.1 Ω – 42 MΩ	$274.00
	-		-		✓	-	
	HOLD		-	-	✓	Cat III 300V	
BENN MM5-1	0.1 mV – 600 V		1 mA – 10 A / 0.1 µA – 10 A		✓	0.1 Ω – 40 MΩ	$197.00
	0.01 Hz – 50 kHz		0.01 nF – 1 mF		✓	-	
	HOLD, PEAK		-	-	True RMS	CAT IV 600	
BENN MM5-2	0.1 mV – 600 V				✓	0.1 Ω – 40 MΩ	$296.00
	0.01 Hz – 50 kHz		0.01 nF – 1 mF		✓	- 40°C + 400°C	
	HOLD, PEAK		-	-	True RMS	CAT IV 600	
BENN MM6-1	0.1 mV – 1000 V		0.1 µA – 600 µA/ 1 mA – 10 A		✓	0.1 Ω – 40 MΩ	$338.00
	0.01 Hz – 100 kHz		1 nF – 10 mF		✓	- 40°C + 400°C	
	HOLD, PEAK, REL				True RMS	CAT IV 600	
BENN MM6-2	0.1 mV – 1000 V		0.1 µA – 600 µA/ 1 mA – 10 A		✓	0.1 Ω – 40 MΩ	$369.00
	0.01 Hz – 100 kHz		1 nF – 10 mF		✓	-	
	HOLD, PEAK, REL		-	-	True RMS	CAT IV 600	
BENN MM7-1	0.1µV - 1000V		10µA - 10A		✓	0.1Ω-40MΩ	$424.00
	0.01Hz/100kHz		1nF/10mF		✓	-40/+400°C	
	HOLD, MAX/MIN		-	-	True RMS	Cat IV 600V	
BENN MM12	10 µV – 1000 V		10 µA – 10 A		✓	0.1 Ω – 40 MΩ	$898.00
	0.1 Hz – 100 kHz		0.01 nF – 40 mF		✓	- 200°C+1.200°C	
	1,000 measured values		✓	40,000 measured values	True RMS	CAT III 1000 V, CAT IV 600	

Digital Clamp Meters

Catalogue Ref No	Voltage AC/DC		Current AC/DC		Continuity	Resistance	Trade Price
	Frequency		Peak Value Memory		Diode	Temperature	
	Memory				RMS	Measure Cat	
BENN CM1-2	0.1 - 600V		≤400A	-	✓	0.1Ω-20MΩ	
	-		-		-	-	
Clamp Opening 30mm	HOLD				RMS	Cat III 600V	$167.00
BENN CM1-3	0.1-750V	0.1-1kV	≤200A	-	✓	0.1Ω-20MΩ	
	-		-		-	-	
Clamp Opening 16mm	HOLD				RMS	Cat IV 600V	$225.00
BENN CM2	0.1mV - 600V		≤300A	≤300A	✓	0.1Ω-40MΩ	
	-		-		✓	-	
Clamp Opening 25mm	HOLD/MAX				RMS	Cat III 300V	$359.00
BENN CM5-1	1.3-750V	0.7-1kV	≤1000A	-	✓	1Ω-10kΩ	
	-		-		✓	-	
Clamp Opening 35mm	HOLD				True RMS	Cat IV 600V	$518.00
BENN CM7	0.1-750V	0.1-1kV	≤1000A	≤1000A	✓	0.1Ω-400Ω	
	1-400Hz		HOLD PEAK		-	-	
Clamp Opening 53mm	MIN/MAX/ZERO				True RMS	Cat IV 600V	$558.00
BENN CM8	10mV - 1kV		≤600A	≤600A	✓	0.1Ω-20KΩ	
	0.1-4kHz		-		✓	-50/+1000°C	
Clamp Opening 40mm	MIN/MAX/HOLD/PEAK/INRUSH				True RMS	Cat III 600V	$611.00
BENN CM9	-	-	≤100A	-	✓	-	
	-		-		✓	-	
Clamp Opening 40mm	HOLD / PEAK				True RMS	Cat III 300V	$824.00
BENN CM11	0-50V	0-300V	0.3-20A	0.3-10A	-	0.1Ω-500KΩ	
	-	-	-	-	-	-	
Clamp Opening 23mm	MIN/MAX/HOLD				True RMS	Cat IV 300V	$645.00

Insulation & Resistance Testers and Installation Tester

	Catalogue Ref No	Low Impedance	Insulation Resistance Memory	Resistance	Voltage Memory	Trade Price
	IT 101	.01Ω-40Ω	1KΩ-20GΩ	.01Ω-40KΩ	≤600VAC/DC	
	Insulation &		Leakage Current / Polarization Index / Dielectric Absorption Rate / Auto Discharge Function / Null Balance Of Measuring Lines		500	$933.00
	Resistance Tester				Measuring	
	Cat IV 600V True RMS				Results	
	IT 130	.01Ω-2000Ω	1KΩ-1000MΩ	-	550VAC	
	Installation Tester		Earth Resistance & Lux Sensor		1800	$2,746.00
					Results	
	BENN CC1	Current Clamp Transducer (Plug In) For Digital Multimeters Inc 4mm Safety Leads			200A	$119.00

Accessories

			Trade Price
TEST LEAD 2MM	Safety Measuring Leads	4mm Ø x 2mm Tip	$27.00
TEST LEAD 4MM		4mm Ø x 4mm Tip	$37.00
TEST LEAD SET	Test Leads For Digital MM/Clamp Meter	Fits MM4	$34.00
BENN TA1	Safety Alligator Test Clamps Cat III 1000V	Red/Black 4mm Ø	$23.00
BENN TA4	Magnetic Adaptor Holder & Belt For Strapping Meters To Cabinets & Machines	DMM's + IT 101	$43.00
BENN F1	Replacement DMM Fuse For MM2-3-5-6-7	1A 500V	$3.00
BENN F10	Replacement DMM Fuse For MM5-6-7	10A 500V	$3.00
BENN F16	Replacement DMM Fuse For MM5-6-7	16A 500V	$3.00

Special Testers

			Trade Price
TRITEST Pro	Phase Sequence Indicator		$110.00
DUTEST Pro	Continuity & Circuit Tester and Torch		$58.00
BENN CFLEX 1	Current Clamp Transducer for use with DMM's 0.3 to 3000Amp		$322.00
BENN CFLEX 2	Current Clamp Meter, Digital, Flexible Loop 0.3 to 3000Amp		$430.00

PV Installation Testers

	Catalogue Ref No	Description	Trade Price
	BENN PV1-1	Photovoltaic Installation Tester	$2,575.00
	BENN SUN2	Irradiance and Temp Instrument for PV Testers	$808.00
	BENN CC3	Clamp meter for PV installations	$298.00

Accessories Range, Spare Parts & Servicing
Eurotec supports Benning customers with a full range of purpose designed accessories and spare parts. Eurotec's onsite service facility provides back up support for warranty and servicing of your Benning instrument.

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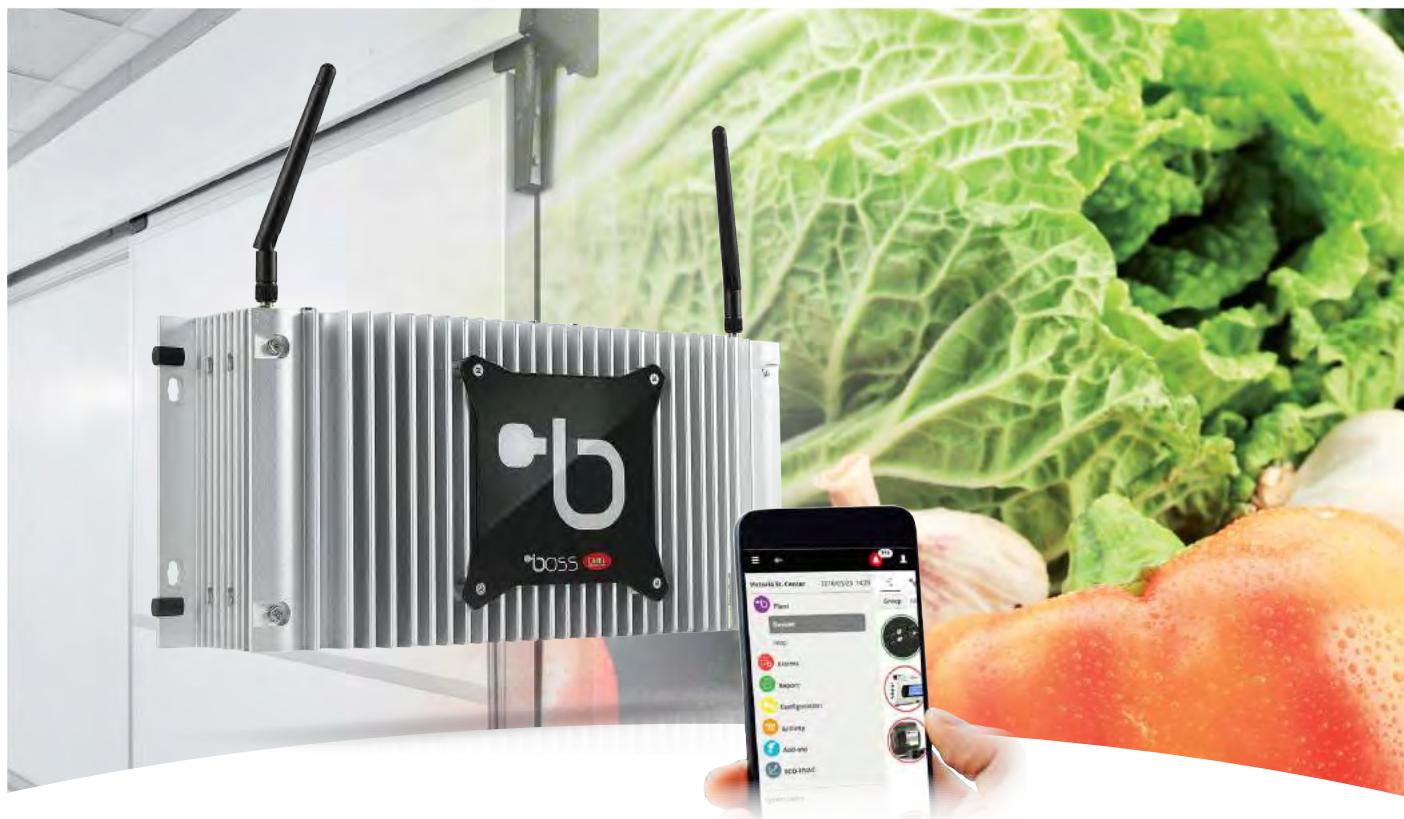
Refrigeration

PlantWatchPRO

UltraCella

ir33+

ir33 DIN

E^{X}V Sistema

supervisory solutions

display cabinet & cold room controllers

electronic expansion valves

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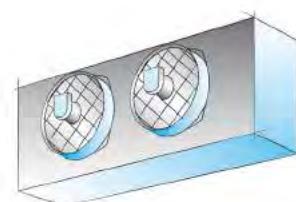
IR33+: New generation of controls for commercial refrigeration

The IR33+ is the evolution of the IR33 family, inheriting and extending all the features that have made it a market benchmark over the years.

- Touch keypad
- Large display +30% compared to IR33
- Intuitive user interface
- Modbus and CAREL protocols
- Mechanical, Electrical and functional compatibility with IR33

New features include:

Appearance:

- touch keypad
- completely flat surface, for much better hygiene, in complete compliance with HACCP requirements
- new design and new layout of the buttons

Usability:

- larger and brighter display (30% bigger than the ir33)

- intuitive user interface: ON/OFF, dedicated alarm icons and direct muting of the buzzer
- context messages on the display while browsing

Integration with monitoring and supervisory systems:

- Modbus® and CAREL protocols (with automatic recognition) available as standard on the entire range

Compatibility with ir33:

- drilling template, assembly, dimensions, wiring diagrams and parameters are the same as on the ir33

Flat
The surface of the controllers is perfectly flat and thin, allowing easy cleaning and ensuring the highest level of hygiene, in complete compliance with HACCP requirements.

Intuitive
New, more intuitive user interface. The main functions are highlighted, such as set point display and auxillary output activation.

Touch
The keypad is touch sensitive for a more attractive and appealing look. This allows the possibility to create custom user interfaces based on different applications.

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Selecting the right controller

The Carel IREV/DN33 may look like only two models, but internally there can be many important differences. Eurotec supports almost 60 models each of the IREV, DN33 Refrigeration and Universal input controllers. These versatile controllers can differ both in hardware and software, according to the requirements of an application.

For new installations and replacement of controllers where the part number is not known we need to understand the needs of your application;

- Is the unit to be used for heating, cooling or another purpose?
- What is the temperature range to be monitored?
- What is the preferred sensor technology to be used (& probe length)?
- What inputs and outputs are required?

- What is the control voltage?
- Is an audible alarm required, is an alarm output contact required?

New! IR33+ Series Panel Mount Refrigeration Controllers

Catalogue Ref No	Description	Control Voltage	Output	Corresponding IR33 p/n	Trade Price
IREVM0LN0U	Thermometer + Internal Buzzer	12/24 Vac 12/30 Vdc	N/A	IR33M00N00	$134.00
IREVM0EN0U	Thermometer + Internal Buzzer	230VAC	N/A	IR33MOER00	$165.00
IREVS0LN0U	Medium Temp Controller	12/24 Vac 12/30 Vdc	1 Relay	IR33SOLN00 IR33SOLR00	$190.00
IREVS0EA0U	Medium Temp Controller	230VAC	2 Relay	IR33SOER00 IR33SOEA0U	$199.00
IREVC0LN0U	Low Temp Controller	12/24 Vac 12/30 Vdc	4 Relays	IR33COLR00	$274.00
IREVC0LC0U	Low Temp Controller	12/24 Vac 12/30 Vdc	4 Relays + RTC	IR33COLB00	$301.00
IREVC0HN0U	Low Temp Controller	115-230 Vac	4 Relays	IR33COHR00	$303.00
IREVF0EN0U	Low Temp Controller	230 Vac	3 Relays	IR33FOER00	$245.00
IREVC0HC0U	Low Temp Controller +RTC	115-230 Vac	4 Relays	IR33COHB00	$321.00
IREVSOENHC	Heating or Cooling thermostat (non essential parameters hidden)	230 Vac	1 Relay	IR33SOENHC	$214.00
IRTRRES000	Infra Red Remote Programming Tool *(While stocks last)*				$51.00
IROPZ48500	Serial Interface - RS485				$106.00

DN33 Series DIN Rail Mount 4M - Refrigeration Controllers

Catalogue Ref No	Description	Control Voltage	Output	Trade Price
DN33COLB00	Low Temp Controller + RTC	12/24V AC/DC	4 Relays	$268.00
DN33COHR00	Low Temp Controller + 2HP Comp Relay	115/230VAC	4 Relays	$268.00
DN33SOEN00	1 Stage T'stat + Static Defrost	230VAC	1 Relay	$214.00
DN33SOENHC	Heating or Cooling 'Stat (Essential Parameters Only)	230VAC	1 Relay	$214.00
DN33FOEN00	Low Temp Controller No Alarm Relay	230VAC	3 Relays	$245.00
DN33FOET00	Low Temp Controller + RTC	230VAC	4 Relays / 1 Aux Relay	$295.00
DN33HOHB00	Low Temp Controller + RTC	115/230V AC	5 Relays Inc / 2 Aux Relays	$352.00
DN33 POLBR0 Kit	Replacement Kit for IR32POLBR0			$312.00
IROPZSER30	Serial Interface - RS485 Or Remote Display For DN33			$60.00

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SmartCella:

The essential solution for your small cold rooms

Flexible and expandable with additional modules

Model with free space to allow customers to add:

- External relays
- Contactors
- Auxillary terminals

- Smart solution based on ir33+ logic and experience
- Intuitive user interface
- Flexible IP65 box ready for additional components
- Modbus and CAREL protocols with auto-recognition
- DIN rail for fast wall mounting

Dimensions in (mm)
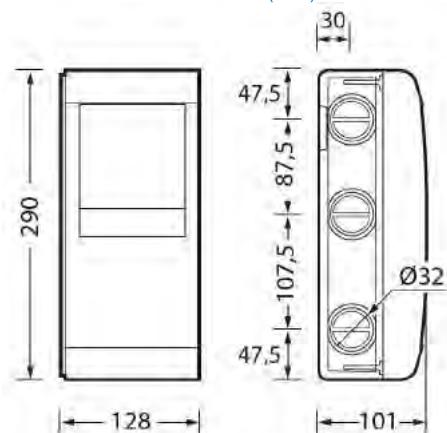
UltraCella platform - The innovative solution for your cold rooms

The new generation of controls based on the latest CAREL technology and innovative mechanical concept. A wide range of controls, to fit all cold room needs in terms of types, features and size.

One platform for all your applications

You can upgrade UltraCella with additional contents thanks to the new modular concept

Example of the UltraCella with the Ultra EVD module and Power module

Ultra EVD Module:

- Easy to assemble and connect to UltraCella leading to energy saving results of CAREL ExV

- Including new Ultracap function and internal power transformer.

Ultra Power Module:

- Extremely flexible system to add electric devices or additional features. e.g Circuit breaker, Additional 3HP relay for compressor

HACCP:
Temperature and alarm data logging:
User can save data easily on a USB key

Pending certification "Fitness for purpose" and world's best practice in terms of food safety

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Carel Cella Range

SmartCella

	Catalogue Ref No	Description	Detail	Output	Trade Price
	WE00S1EN00	SmartCella	Medium Temp	1 Relay 230Vac	$291.00
	WE00C2HN00		Low Temp	4 Relays 115-230Vac	$388.00

MasterCella 2

	Catalogue Ref No	Description	Detail	Output	Trade Price
	MD33A5ER00	MasterCella2 Compressor Controller	Medium Temp	1 Relay	$383.00
	MD33D5EB00		Low Temp	5 Relays	$462.00
	IROPZSEM30	RS485 Serial & Remote Display Interface - Auto Polarity			$77.00

UltraCella

	Catalogue Ref No	Description	Detail	Output	Trade Price
	WB000DG0F0	UltraCella, Green 2 line display with Humidity Control		6 Relays 230Vac	$614.00
	WM00ENSI00	Optional Modules	EXV Module with interface for Ultracella or Smartcella		$679.00
	WM00ENNI00		Blind EXV Module for Ultracella		$485.00
	WM00P000NN		Power Module main switch for Ultracella or Smartcella		$182.00

ColdWatch

	Catalogue Ref No	Description	Detail	Output	Trade Price
	CM00006236	Trapped Personnel Alarm Kit with Battery Backup			$673.00

Dimensions in (mm)

Example Application:

1 Control unit housed in a plastic case with removeable front panel allowing ample customisation possibilities. Cable inlet from below and above. Flashing light and siren at the front to signal alarms.
Control board housed inisde with voltage-free contact for controlling additional devices, such as: shutdown cold room, switch on the light in the cold room, activate a telephone dialler.
The backup battery installed inside the control unit ensures activation even in the event of blackout.

2 Emergency button with LED for easy identification, always on, supplied with polycarbonate adhesive label and complete with drilling template.

Control Unit

240
200
87.3

Emergency Button

70
52
64
80
73

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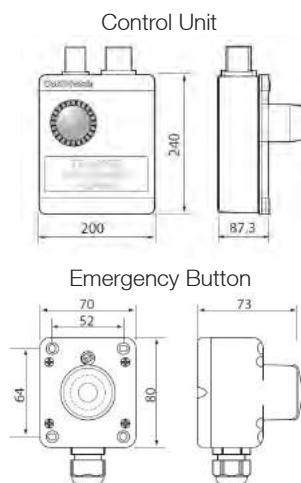
Carel Easy Controllers

	Catalogue Ref No	Description	Detail	Output	Trade Price
	EasyCool	EasyCool controller with 1.5m HP probe	Medium Temp	1 Relay 230Vac	$184.00
	EasyFreeze	EasyFreeze controller with 1.5m HP probe	Low Temp	3 Relay 230Vac	$227.00
	PJEZC8I050	2 Stage Controller with Relay Board		4 Relay 230Vac	$348.00
	PEOPZC3000	3m cable for PJEZ split controller	-	-	$38.00

IP65

easy: the shape of simplicity

easy

ON/OFF functions:
The unit can be switched ON/OFF either from digital input or direclty from the keypad.

Flat keypad:
The keypad is one of the most innovative aspects of this instrument. The completely flat surface allows easy cleaning and ensures greater hygiene, in complete compliance with the HACCP directive.

High Efficiency Display:
To ensure greater visibility and simplify the reading of the values and the operating status, the height of the digits has been increased by 27% compared to traditional displays. Decimal resolution is available on all easy and easy compact models.

Easy to Install

Easy installation using the front mounting system

Easy to Plug

Easy wiring thanks to the built in transformer and the realys with power rating up to 2 Hp

Easy to Clean

Easy to clean thanks to the perfectly flat keypad

Easy to Read

Easy to read, high efficiency display and digits that are 27% larger than traditional displays

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IR33 Universal Panel Mount Controllers - 1 Stage + I/R Remote + Buzzer

	Catalogue Ref No	Description	Inputs	Outputs	Control Voltage	Relays	Trade Price
	IR33V9MR20	Universal Input Controller c/w Buzzer & I/R Remote	2 Universal	-	24V AC/DC	1 Relay	$303.00
	IR33V9HR20				115-230V AC		$347.00
	IR33V7LR20	Temperature Input Controller c/w Buzzer & I/R Remote	2 Temperature		12-24VAC 12-30VDC		$252.00
	IR33V7HR20				115-230V AC		$287.00

DN33 Universal Series DIN Rail Mtg Controllers 4M - 1 Stage + I/R + Buzzer

	Catalogue Ref No	Description	Inputs	Outputs	Control Voltage	Relays	Trade Price
	DN33V9MR20	Universal Input Controller c/w Buzzer & I/R Remote	2 Universal	-	24V AC/DC	1 Relay	$369.00
	DN33V9HR20				115-230V AC		$401.00
*Std Models IR33V7HR20 DN33V7HR20	DN33V7LR20	Temperature Input Controller c/w Buzzer & I/R Remote	2 Temperature		12-24VAC 12-30VDC		$339.00
	DN33V7HR20				115-230V AC		$372.00

IR33 Universal Panel Mount Controllers - 2 Stage + I/R + Buzzer

	Catalogue Ref No	Description	Inputs	Outputs	Control Voltage	Relays	Trade Price
	IR33W9MR20	Universal Input Controller c/w Buzzer & I/R Remote	2 Universal	-	24V AC/DC	2 Relays	$347.00
	IR33W9HR20				115-230V AC		$369.00
	IR33W7LR20	Temperature Input Controller c/w Buzzer & I/R Remote	2 Temperature		12-24VAC 12-30VDC		$301.00
	IR33W7HR20				115-230V AC		$334.00

DN33 Universal Series DIN Rail Mtg Controllers 4M - 2 Stage + I/R + Buzzer

	Catalogue Ref No	Description	Inputs	Outputs	Control Voltage	Relays	Trade Price
	DN33W9MR20	Universal Input Controller c/w Buzzer & I/R Remote	2 Universal	-	24V AC/DC	2 Relays	$401.00
	DN33W9HR20				115-230V AC		$449.00
	DN33W7LR20	Temperature Input Controller c/w Buzzer & I/R Remote	2 Temperature		12-24VAC 12-30VDC		$361.00
	DN33W7HR20				115-230V AC		$390.00

IR33*9/DN33*9	Universal Input = NTC, PTC, PT100, t/c J or K, 0-20/4-20mA 0-10V, ratiometric
IR33*7/DN33*7	Temperature Input = NTC, PTC & PT1000

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IR33 Universal Series Panel Mount Controllers - Four Stage (Relays)

Catalogue Ref No	Description	Inputs	Control Voltage	Relays	Trade Price
IR33Z9MR20	Universal Input Controller c/w Buzzer & I/R Remote	2 Universal	24V AC/DC	4 Relays	$401.00
IR33Z9HR20			115-230V AC		$449.00
IR33Z7LR20	Temperature Input Controller c/w Buzzer & I/R Remote	2 Temperature	12-24VAC 12-30VDC		$355.00
IR33Z7HR20			115-230V AC		$389.00

DN33 Universal Series Din Rail Mtg Controllers 4M - Four Stage (Relays)

Catalogue Ref No	Description	Inputs	Control Voltage	Relays	Trade Price
DN33Z9MR20	Universal Input Controller c/w Buzzer & I/R Remote	2 Universal	24V AC/DC	4 Relays	$449.00
DN33Z9HR20			115-230V AC		$471.00
DN33Z7LR20	Temperature Input Controller c/w Buzzer & I/R Remote	2 Temperature	12-24VAC 12-30VDC		$411.00
DN33Z7HR20			115-230V AC		$439.00

IR33*9/DN33*9 Universal Input = NTC, PTC, PT100, t/c J or K, 0-20/4-20mA 0-10V, ratiometric

IR33*7/DN33*7 Temperature Input = NTC, PTC & PT1000

IR33 Universal Series Panel Mount Controllers - Four Stage (SSR's)

Catalogue Ref No	Description	Inputs	Control Voltage	Relays	Trade Price
IR33A9MR20	Universal Input Controller c/w Buzzer & I/R Remote	2 Universal	24V AC/DC	4 SSR's	$303.00
IR33A9HR20			115-230V AC		$347.00
IR33A7LR20	Temperature Input Controller c/w Buzzer & I/R Remote	2 Temperature	12-24VAC/ 12-30VDC		$358.00

DN33 Universal Series DIN Rail Mtg Controllers 4M - Four Stage (SSR's)

Catalogue Ref No	Description	Inputs	Control Voltage	Relays	Trade Price
DN33A9MR20	Universal Input Controller c/w Buzzer & I/R Remote	2 Universal	24V AC/DC	4 SSR's	$449.00
DN33A9HR20			115-230V AC		$471.00
DN33A7LR20	Temperature Input Controller c/w Buzzer & I/R Remote	2 Temperature	12-24VAC/ 12-30VDC		$449.00

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IR33 Series Panel Mount Universal Controllers - 1 Relay + 1 x 0-10V Out

	Catalogue Ref No	Description	Inputs	Outputs	Control Voltage	Relays	Trade Price
	IR33B9MR20	Universal Input Controller c/w Buzzer & I/R Remote	2 Universal	1x Digital and 1x 0-10v	24V AC/DC	1 Relay	$369.00
	IR33B9HR20				115-230VAC		$449.00
	IR33B7LR20	Temperature Input Controller c/w Buzzer & I/R Remote	2 Temperature	1x Analog and 1x 0-10v	24V AC/DC		$334.00

DN33 Series DIN Rail Mtg Universal Controllers 4M - 1 Rly + 1 x 0-10V Out

	Catalogue Ref No	Description	Inputs	Outputs	Control Voltage	Relays	Trade Price
	DN33B9MR20	Universal Input Controller c/w Buzzer & I/R Remote	2 Universal	1x Analog & 1x Digital	24V AC/DC	1 Relay	$449.00
	DN33B9HR20				115-230VAC		$471.00

IR33 Series Panel Mount Universal Controllers - 2 Relays + 2 x 0-10V Out

	Catalogue Ref No	Description	Inputs	Outputs	Control Voltage	Relays	Trade Price
	IR33E9MR20	Universal Input Controller c/w Buzzer & I/R Remote	2 Universal	2x Analog & 2x Digital	24V AC/DC	2 Relay	$449.00
	IR33E9HR20				115-230VAC		$471.00
	IR33E7LR20	Temperature Input Controller c/w Buzzer & I/R Remote	2 Temperature		12-24VAC 12-30VDC		$396.00
	IR33E7HB20*				115-230VAC		$431.00
	*Note:	Includes Real Time Clock					

DN33 Series DIN Rail Mtg Universal Controllers 4M - 2 Rlys + 2 x 0-10V Out

	Catalogue Ref No	Description	Inputs	Outputs	Control Voltage	Relays	Trade Price
	DN33E9MR20	Universal Input Controller c/w Buzzer & I/R Remote	2 Universal	2x Analog & 2x Digital	24V AC/DC	2 Relay	$471.00
	DN33E9HR20				115-230VAC		$485.00
	DN33E7LR20	Temperature Input Controller c/w Buzzer & I/R Remote	2 Temperature		12-24VAC/ 12-30VDC		$449.00

IR33*9/DN33*9	Universal Input = NTC, PTC, PT100, t/c J or K, 0-20/4-20mA 0-10V, ratiometric
IR33*7/DN33*7	Temperature Input = NTC, PTC & PT1000

IR33/DN33

Need to know...

- Panel or surface mounting?
- Cooling/heating or both?
- If 'universal' type, how many stages?
- Control voltage?
- Output relays, quantity, type & rating?
- Sensor type, reqd range & length?

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Accessories For IR33+ Refrigeration And Universal Series Controls

Catalogue Ref No	Description	Detail	Trade Price
TRM00NC000	LCD Battery Thermometer c/w 2m Sensor -40 To +100°C		$49.00
IRBOX00000	Surface Mount Box c/w Cut-out For IR33 Controls (71x29mm) 125x125x100mm		$40.00
Note:	IRDRBOX is now coded EBOX04M66 (see below)	IP65	
S90CONN001	Auxiliary Board Connector		$22.00
RLY2402HP	Load Switching Relay 30Amps 2HP 230VAC 1NO		$40.00
CONV0/10A0	PWM To 0/10V (4-20mA) Convertor	Available while stocks last	$163.00
CONVONOFF0	PWM To On/Off Relay Output Convertor		$105.00
CONV0/1L00	Power Supply Module		$163.00
IROPZSEM30	RS485 serial & Remote Display interface with automatic polarity recognition		$77.00
IROPZSER30	On board serial interface for RS485 or remote display for DN33 series		$60.00
IROPZ48500	RS485 serial interface for IR33 & DN33		$106.00
IROPZKEY00	IR33, DN33, MasterCella2 & PowerCompact Programming Key		$181.00
IROPZKEYA0	230V ,IR33, DN33, MasterCella2 & PowerCompact Programming Key		$181.00
IROPZPRG00	USB-12C Programming Interface for use with VPM Software		$284.00
IR00XGD000	Remote Display (3digit) for IR33, DN33 & MasterCella2. (require PSTCON cable & IROPZDSP00)		$80.00
IREVXGD000	Remote display for IR33+ (require PSTCON cable IROPZDSP00)		$80.00
IROPZDSP00	Remote display interface for IR33		$37.00
PSTCON01B0	Remote display cable 1.5 metre		$17.00
PSTCON05B0	5m Connection Cable For IR33 Remote Display		$21.00
IRTRUES000	IR Remote Control For IR33 Universal Controllers		$51.00
IRTRRES000	IR Remote Programming Tool (Refrigeration)	Available while stocks last	$51.00

Please see the DHECN price list section for larger transformers & switchmode power supply's

Catalogue Ref No	Description				Trade Price
TRA12UN100		12VAC	3VA	60x45x35mm	$22.00
TRA2400001	Encapsulated Transformer	24VAC			$22.00
TRA0060000		12/24VAC	5VA	60x60x40mm	$29.00
TRADR4W024	DIN Rail Transformer	230V/24VAC	4VA	50x 40x40mm	$52.00
TRADR1W024	DIN Rail Transformer for MasterCella Split Terminal		10VA	50x 40x40mm	$53.00

EUROBOX M66 Control Boxes

Catalogue Ref No	Description	Dimensions h x w x d	Format (Rows)	17.5mm Modules	Trade Price
EBOX04M66	DIN Modular Enclosure IP66	190x112x106mm	1R x 4M	4M	$70.00
EBOX08M66		190x184x106mm	1R x 8M	8M	$78.00
EBOX12M66		250x256x140mm	1R x 12M	12M	$142.00
Note:	Each DN33 controller requires 4M mounting space				

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Temperature Probes

	Catalogue Ref No	Description	IP Rating	Probe Size	Cable Length	Range	Trade Price
NTC*WP00 Std & NTC***WH01 Dairy Immersion Sensors	NTC015WH01	NTC Immersion & Ambient Sensor Std Response Time	IP68	6 Ø x 6mm	1.5m	-50 to +100°C	$33.00
	NTC060WH01				6.0m		$46.00
	NTC120WH01				12m		$55.00
	DAIRYPROBE6MIP68	NTC Immersion Sensor Dairy			6.0m	-50 to +105°C	$50.00
NTC0WF00 Probe Head	NTC015WF00	NTC Immersion & Ambient Sensor Fast Response Time	IP67	4 Ø x 40mm	1.5m	-50 to +105°C	$39.00
	NTC060WF00				6.0m		$47.00
	NTC015HP00	NTC Ambient Only Sensor Std Response Time	IP67	6 x 5 x 5mm	1.5m	-50 to +60°C	$22.00
	NTC030HP00				3.0m		$31.00
	NTC060HP00				6.0m		$34.00
	NTC030HF00	NTC Sensor Strap On	IP67	20mm	3.0m	-5 to +90°C	$42.00
PTC0**00	NTC015HT00	NTC Sensor High Temp	IP55	5 Ø x 20mm	1.5m	-5 to +150°C	$40.00
	NTC060HT00				6.0m		$49.00
	PTC0150000	PTC Sensor/ Probe Immersible	IP65	6 Ø x 100mm	1.5m	0 to +150°C	$33.00
	PTC015W000		IP67		1.5m	-50 to +100°C	$37.00
	PTC060W000				6.0m		$46.00
	PT100000A1	PT100 Sensor/Probe	IP67	6 Ø x 40mm	3.0m	-50 to+250°C	$108.00
	PT100012A1	Thermostat Probe & Pocket (50mm)	IP67	-	12m		$224.00
	TCJ0000001	Thermocouple/ Probe	IP67	6 Ø x 100mm	3.0m	J-Type 0-550°C	$71.00
	TCK0000001					K-Type 0-800°C	$182.00
	1413306AXX	Brass Probe Pocket 8.5 Ø x 60mm					$34.00
	1413309AXX	Stainless Steel Probe Pocket 7.5 Ø x 60mm					$49.00

NB: Supply includes sensor & cable only; NTC sensors are specific to the brand of controller

The ideal solution to respond to a variety of market requirements

- high number of inputs and outputs for control needs;
- innovative management algorithims for energy savings;
- Comprehensive and flexible control menu
- multiple integration/supervision possibilities

pRack Platform

The complete solution for compressor racks

High Efficiency Solutions.

pRack Programmable Controller

	Catalogue Ref No	Description	Details		Trade Price
	PRK300L3FK	pRack 300 series Controller & Connector kit	Large		$2,478.00
	PRK300S3FK			Inc External PGD1 & Cable	$1,504.00
	PRK300S3E0	pRack 300 series Controller with 2 SSR outputs and connector kit	Small		$1,396.00

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pCO Sistema Terminals and Accessories

Code	Description		Price
PCOS004850	RS485 Serial Board		$262.00
PCOS00AKY0	Programming Key		$411.00
PCOS00AKC0	USB Adapter & Telephone Connector For PCOS00AKY0		$438.00
PGDT10000FR10	10 inch PGD Touch Display		$3235.00
PGD1000F00	Panel Mtg PGD LCD Term 132x64 Pixels	Requires S90CONN001	$531.00
PGD1000W00	Wall Mtg PGD LCD Term 132x64 Pixels		$536.00
PLD00GFP00	pLDPRO LCD, 132x64 pixels, pLAN		$249.00
PGR04000FA000	pGDX 4.3" Panel Front Indoor-Serial RJ12 Connector -No RTC		$650.00
PGR04000TCDA0	pGDX 4,3" Browser Panel Front Outdoor-Serial Screw Connector-Ethernet-Buzzer -IP65		$784.00
PGB04000TERBO	pGDX 4,3" Browser Panel Front -IP65		$784.00
PGB04000WECB0	pGDX 4,3" Browser Wall - T/H probe onboard		$952.00
PGTA00FB00	Standard Carel Black Frame for pGDX 4,3"		$34.00
PGTA00FH00	Standard Black Transparent Frame with T/H holes for pGDX 4,3"		$50.00

Energy Meters & Accessories

Code	Description	Price
MT100D2100	1 Phase Power Meter	$429.00
MT300W3200	3 Phase Power Meter without user interface, connection with CT (Emeter3SE)	$610.00
MTOPZD0000	User Terminal for 3 phase Power Meter	$159.00
MTOPZT1000	100A Current Transformer	$74.00
MTOPZT2000	200A Current Transformer	$74.00

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EXV Electronic Expansion Valve System

The range of electronic expansion valves offered by CAREL covers cooling capacities up to 2000kW

The main features of the EXV valves are:

¤ External stator replaceable without dismantling the valve
¤ Removable motor mechanism to assist soldering & replacement without unsoldering valve body (option on E2V)
¤ Integrated sight glass (optional on E2V & E3V)
¤ Gearless - movement on stainless steel ball bearings
¤ Perfect refrigeration tightness when valve closed
¤ Proven Reliability
¤ Very precise equal percentage flow control

Expansion Valves (Hydrocarbon and CO2 models also available)

Catalogue Ref No	Description	Size	Copper Connections	Trade Price
E2V05BSF00	Electronic Expansion Valve	5	12mm	$305.00
E2V09BSF00		9		$305.00
E2V11BSF00		11		$305.00
E2V14BSF00		14		$305.00
E2V18BSF00		18		$305.00
E2V24BSM00		24	16mm	$305.00
E2V30BSM00		30		$305.00
E2V35BSM00		35		$305.00
E2VMAG0000	E2V Magnet Tool			$62.00
E2V05CS000	Bipolar E2V For Transcritical CO2	5 to 18	-	$376.00
E3V45SWR10	Electronic Expansion Valve	45	3/4" - 7/8" ODF Without sight glass	$815.00
E3V45SSR10			18-22mm ODF	$815.00
E3V55SSR10		55		$831.00
E3V55SWR10			3/4" - 7/8"	$831.00
E3V65SSS10		65		$831.00
E4V85AST00	Electronic Expansion Valve With Sight Glass	85	22mm and 28mm	$1,1042.00
E4V95AST00		95		$1,189.00
E5VA2AST00	Electronic Expansion Valves with Sight Glass	120	35mm and 35mm	$1,350.00
E5VA5AST00		150		$1,350.00
E6VB2ASV00		200	42mm and 42mm	$1,577.00

Expansion Valves For Ammonia

E2V09BS000	Electronic Expansion Valve - Stainless Steel For Ammonia	9	10mm	$363.00
E2V11BS000		11		$363.00
E2V14BS000		14		$363.00
E2V18BS000		18		$363.00
E2V24BS000		24		$363.00
E2V30BS000		30		$363.00
E2V35BS000		35		$363.00

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Electronic Expansion Valve Drivers

Catalogue Ref No	Description	Detail/Notes	Trade Price
EVD0000E20	EVD Evolution Universal Driver		$411.00
EVD0000E50	EVD Evolution Carel Valve Driver	RS485/Modbus	$346.00
EVD0000T20	EVD Universal Twin Driver For Carel EEV		$788.00
EVD0000T50	EVD Carel Valve Twin Driver For Carel EEV		$535.00

Electronic Expansion Valve & Driver Accessories

Catalogue Ref No	Description	Detail/Notes	Trade Price
EVDIS00EN0	EVD Evolution Display		$295.00
EVDCNV00E0	Convertor For EVD/EVO	USB To tLAN	$251.00
EVD0000UC0	Ultra Capacitor Module	-	$282.00
EVD00N3E2K	Kit ExV for Universal Valve	0-10bar without valve	$739.00
EVD00N3E5K	Kit ExV for Carel Valve		$631.00
EEVMAG0000	Magnets for Manual Driving	Set of 3	$128.00
E2VCABS300	EEV Valve Cable & Connector	3m - Shielded	$45.00
E2VCABS600		6m - Shielded	$68.00
E2VSTA0200	E2V Stator (Coil)	For E2V**B Valves	$91.00
E2VSTA0371	Unipolar stator with 0.7m lead	-	$50.00
E3VORI0100	E3V "O" Ring	-	$7.00
E3VSTA0000	E3V Stator (Coil)	For E3V*A* Valves	$183.00
E6VORI0100	E6V "O" Ring	-	$18.00
E4VSTA0000	E4V Stator (Coil)	For E4V*A* Valves	$215.00
E4VORI0000	E4V "O" Rings	-	$18.00
E5VSTA0000	E5V Stator (Coil)	For E5V Valve	$215.00
E5VORI0100	E5V "O " Ring	-	$18.00
E6VSTA0000	E6V Stator (Coil)	For E6V Valve	$215.00
0907930AXX	EVD Net Filter	Recommended	$27.00

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Fan Speed Controllers

Catalogue Ref No	Description	Input	Output	Trade Price
FCSM042300			4 Amps	$150.00
FCSM082300	Fan Speed Driver Module Single Phase (Please ensure motor is compatible)		8 Amps	$203.00
FCSM122300			12 Amps	$248.00
FCSER00000	Serial Interface card for PowerSplit, MasterCellaSplit & FCM Controllers		-	$109.00
FCR3064020			6 Amps	$820.00
FCR3094040	3 Phase Fan Power Board with RS485		9 Amps	$884.00
FCR3124020			12 Amps	$948.00
FCR3204020			20 Amps	$1348.00

Stand-alone Fan Speed Controller

Catalogue Ref No	Description	Input	Output		Trade Price
FCPM082010	Fan Speed Controller	Requires Pressure Sensors	230VAC	8 Amps	$419.00
FCPM00A01K		Kit c/w Pressure Sensors 0-34.5bar & Cable			$540.00

Pressure Sensors

Catalogue Ref No	Description	Input	Output		Trade Price
SPKT0011C0			0 To 10bar		$167.00
SPKT0021C0			-0.5 To 7bar		$167.00
SPKT0031C0			0 To 30bar	4-20mA	$167.00
SPKT00B1C0			0 to 44.8 bar		$198.00
SPKT00D8C0	Pressure Transmitter (Requires SPKC002310 or SPKC005310 Cable & Connector)	"1/4"" Female Flare Connection"	0 To 150bar		$204.00
SPKT00G1S0			0 To 60bar		$204.00
SPKT0013R0			-1 To 9.3bar		$113.00
SPKT0033R0			0 To 34.5bar	0-5V	$113.00
SPKT0043R0			0 To 17.3bar		$113.00
SPKT00B6R0			0 To 45bar		$113.00
SPKC002310	Cable With Packard Style Connector For Transmitters		2mtr		$21.00
SPKC005310			5mtr		$31.00

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Carel Supervisory Solutions

Carel Boss:
The new mobile-ready local supervisor.

Boss is the new local supervisory system for medium to large size installations. It can be accessed easily via a built in Wifi network from any mobile device without the need of special software or Apps.

Key Features:

- Modbus, Bacnet TCP/IP, Bacnet MS/TP all built in
- Built in Wi-Fi
- MicroSD backup
- Built in heat sink so no cooling
- No fan required making operation quiet
- Desktop, wall or DIN mounting configurations
- Reliable Unix derived operating system with TLS encryption
- Meets EN-12830 standard for temperature and recording of food in storage and distribution applications

ALWAYS IN YOUR POCKET:
The BOSS supervisor is completely browsable from all mobile devices, for both daily access and system maintenance, right from commissioning.

Carel PlantWatchPRO: System monitoring and optimisation

MONITORING, CONTROL AND OPTIMISATION SOLUTION FOR:

- Small and medium sized supermarkets;
- Cold rooms
- Restaurant chains
- Service stations
- Retrofits

Installation:

- Panel version for e-box or technical mount
- Wall version for ambient/office mount

Tablet Interface

Wide
All the information is available by simply touching the new 7-inch display. Also accessible via PC, smartphone or tablet.

Protocols
Integration and management of third-party devices using the Modbus protocol.

Web
Easy connection to intranet/internet and web service functions.

Service
Access to all system parameters. Authorised parameter setting according to the access profile. Troubleshooting using the graphs.

Energy Savings
Floating Suction - Smooth line. New algorithim to maximise evaporator efficiency according to cabinet cooling demand.

Food Quality
Alarm management and logging of critical data in accordance with the standards required by legislation in force.

PlantWatch PRO 3/Boss & Carel Supervisory Networks

Catalogue Ref No	Description	Trade Price
PW3P000TP000	PWPRO HW3 Panel version Mini - For up to 15 devices/100 Variables Includes floating suction module	$2,453.00
PW3P000TS000	PWPRO HW3 Panel version Standard - For up to 30 devices/300 Variables Includes floating suction module	$2,669.00
PW3W000TSI00	PWPRO HW3 Wall version Standard - For up to 30 devices/300 Variables Includes floating suction module	$2,994.00
PW3AREL000	External board with 2 relays for alarm notification with PWPRO HW3	$201.00
PW3AGSM000	GSM moden for PlantWatch Pro3	$1025.00
BMHST00XS0	BOSS Monitoring System Standard Capacity	$6587.00
BMHST00XE0	BOSS Monitoring System Extended Capacity	$7008.00
BMHST01P00	1 BOSS Plug in Credit	$560.00
IOM0002300	I/O Module 230VAC	$303.00
IOM0002400	I/O Module 24VAC	$303.00
IROPZ48500	Serial Card For IR33	$106.00
IROPZSEM30	MD33 Serial Card RS485 and/or repeater display card	$77.00
IROPZSER30	DN33 On Board Serial Card RS485 and/or repeater display card	$60.00
PCOS004850	pCOXS, pCO1 & pCO3 Serial Card RS485	$262.00
CVSTDUMOR0	USB RS485 Converter	$398.00
CVSTDUTLF0	USB RS485 Converter Telephone Connector	$370.00

Refrigerant Detectors

Catalogue Ref No	Description	Trade Price
DPWL417000	C02 ir refrigerant detector	$1440.00
DPWL427000	C02 ir refrigerant detector with remote sensor	$1543.00
DPWLB07000	R134a semiconductor Refrigerant detector	$860.00
DPWLC07000	R404a semiconductor Refrigerant detector	$860.00
DPWLS07000	R407F semiconductor Refrigerant detector	$860.00
DPWLE07000	R410A semi-conductor gas leak DETECTOR, IP41	$860.00

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RTA200 Series Temperature Controls For Heating And Cooling

Catalogue Ref No	Description	Relay	Temperature Range	Trade Price
RTA200A230			-35 To -5°C	$107.00
RTA200B230			-10 To +20°C	$107.00
RTA200C230	DIN Rail Mount Thermostat	Auto	+5 To +35°C*	$107.00
RTA200D230			+35 To +65°C	$107.00
RTA202F230		Man-Hi	+65 To +95°C	$120.00
RTA202E230		Man-Low	-20 To +10°C	$120.00

Note*   Recommended model for underfloor heating. All types require NTC sensors.

New! Carel Quickfinder Apps for iOS & Android

CAREL presents QuickFinder, the selection tool for refrigeration applications.

This has been designed and developed for distributors and installers, with the following objectives:

• To provide a useful contribution in the field, when product information is needed during installation or maintenance, such as parameter tables, alarm tables, connection diagrams and instruction sheets, thus helping the installer in their every day work, and making access to this information faster.

• To offer a CAREL alternative to other products available on the market. Distributors or installers who want to use a CAREL controller for a specific application can now refer to a table with complete comparison of compatible instruments.

Visit http://www.carel.com/apps to download the app

ExV Selection

ExV Selection is the application developed by Carel to quickly and easily select the correct electronic expansion valve size both for A/C and retail applications.

From work temperature data to heating/cooling capacity data, the application calculates the valve size that meets the builder's needs. The algorithm that performs the calculations is developed based on Carel's experience in various application fields.

The app is available in both the International Metric System (SI) and the Imperial system.

Visit http://www.carel.com/apps to download the app

pRack size & more

The pRack tool for retail applications.

This app has been designed for:

• SIZING To suggest the most matching codes and architecture. It is also possible to export a pdf file with summary information about your choice.

• FINDING information, starting from: CAREL codes, Mask Index, Supervisory name and Alarm codes.

• MORE To provide a useful contribution both in the office and in the field, when product information is needed during selection or installation or maintenance.

Visit http://www.carel.com/apps to download the app

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Clima Series Air-conditioning Controls, 24VAC

	Catalogue Ref No	Description	Temp & rH	Input	Output		Trade Price
	ADCA000210	Heat Pump T'stat + RTC	10 To 40°C	2AI 1DI	2 Relays		$303.00
	ADCD000110	Humidistat + RTC	10 - 40°C 10 - 70%	2AI 1DI	1 Relay	1AO (0-10VDC)	$538.00
	ADCF000210	Advanced Stat/ Humidistat/RTC	10 - 40°C 10 - 70%	2AI 1DI	1DO		$626.00

Digital Temperature And Humidity Sensors (Supply = 8-32VDC/12-24VAC)

	Catalogue Ref No	Desc	Temp	Humidity	Output	Trade Price
	DPWC111000	Wall Sensor	-10 To +60°C	10 To 90% rH	0-1V/4-20mA	$359.00
	DPWC112000				0-10VDC	$376.00
	DPWT010000			-	0-1V/4-20mA	$171.00
	DPWT011000			-	Res NTC	$86.00
	DPWT014000			-	RS485	$380.00
	DPDC110000	In Duct Sensor (L=272mm)	-20 To +70°C	10 To 90% rH	0-1V/4-20mA	$627.00
	DPDC112000				0-10VDC	$515.00
	DPDC210000			0 To 100% rH	4-20mA	$804.00
	DPDT011000			10 To 90% rH	Res NTC	$202.00
	DPPC110000	Industrial Wall Sensor	-10 To 60°C	10 To 90% rH	4-20mA	$493.00
	DPPC210000		-20 To 70°C	0 To 100% rH	0-1V/4-20mA	$769.00

Steam Humidifiers - Electrode Type

	Catalogue Ref No	Description	Capacity	Trade Price
	CHF01V2000	Compact Steam Humidifier	1.6kg/hr	$2,039.00
	CHF03V2000		3.2kg/hr	$2,245.00
	UE003YDCC0	Humi Steam 230VAC Single Phase	3.0kg/hr	$2,950.00
	UE005YDCC0		5.0kg/hr	$3,327.00
	UE008YLCC0		8.0kg/hr	$3,514.00
	UE015YLCC0		15kg/hr	$3,810.00
	UE018YLCC0		18kg/hr	$3,858.00
	UE025YLCC0	Humi Steam 415VAC Three Phase	25kg/hr	$4,990.00
	UE035YLCC0		35kg/hr	$5,660.00
	UE045YLCC0		45kg/hr	$6,176.00
	UE065YLCC0		65kg/hr	$7,568.00

Atomising Humidifiers

	Catalogue Ref No	Description	Capacity	Trade Price
	UC0100DK00	Centrifugal Humidifier + Pipes + Wall Mtg Brkt	1.0kg/hr	$1,464.00
	UC0650D000	Humidifier w/o Heater Kit Or Control Panel	6.5kg/hr	$3,266.00

Humidifiers up to 90kg/hr are available.
Please contact Eurotecs HVAC team for the widest range and project engineering of humidifiers.

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Ventilated Steam Distributor (for models up to UE015)

	Catalogue Ref No	Description	Trade Price
	VSDU0A0001	Ventilated Steam Distributor VSDU0A	$1,235.00
	VSDBAS0000	Base For Remote Mounting VSDU0A	$183.00

Steam Distributors - Stainless Steel

	Catalogue Ref No	Description	Diameter	Length	Trade Price
Larger steam distributors are available for larger humidification systems.	DP035D22R0			L = 350mm	$213.00
	DP045D22R0		Ø 22mm	L = 450mm	$243.00
	DP060D22R0			L = 600mm	$270.00
	DP085D22R0	Stainless Steel Steam Distributor		L = 850mm	$329.00
	DP035D30R0			L = 350mm	$243.00
	DP045D30R0		Ø 30mm	L = 450mm	$296.00
	DP060D30R0			L = 600mm	$329.00
	DP085D30R0			L = 850mm	$389.00

Humidifier Bottles/Cylinders

	Catalogue Ref No	Description	Electrical	Conductivity	Capacity	Trade Price
	BL0S1E00H2	Low Conductivity Cylinder	1 Phase	75-350 µS/cm	1 - 3kg/hr	$173.00
	BL0T2B00H2		3 Phase		5 - 8kg/hr	$299.00
	BL0T3B00H2				10 - 18kg/hr	$366.00
	BL0T2C00H2	Medium Water Conductivity Cylinder	3 Phase	350-750 µS/cm	5-8kg/hr	$289.00
	BL0T3C00H2				10-18kg/hr	$343.00
	BL0S1F00H2	High Conductivity Cylinder	1 Phase	750-1250 µS/cm	1 - 3kg/hr	$174.00
	BL0T2D00H2		3 Phase		5 - 8kg/hr	$299.00
	BL0T3D00H2				10 - 18kg/hr	$366.00
	BL0SRF00H2	OEM Kit Replacment Cylinder Med/Hi Conduct	1 Phase	750-1250 µS/cm	1 - 3kg/hr	$174.00
	BL0T1D00H2		3 Phase		3kg/hr	$219.00
	BL0S2E00H2	All Conductivity's Cylinder	1 Phase	750-1250 µS/cm	5kg/hr	$325.00

Steam Hose

	Catalogue Ref No	Description	Trade Price
	1312360AXX	22mm Steam Hose With Spring	$98.00/mtr
	1312365AXX	30mm Steam Hose With Spring	$119.00/mtr
	1312367AXX	40mm Steam Hose With Spring	$157.00/mtr

Flood Detection Systems

	Catalogue Ref No	Description	Trade Price
	FLOE000010	CFPOOC Controller	$139.00
	FLOS000000	Water Sensor	$50.00
	FLOR000000	Ribbon Sensor (25mtr) Roll	$490.00

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Control Panel Solutions for Industry

Eurotec has been building and supplying Control Panel Solutions to the commercial sectors of the Refrigeration, HVAC and Electrical Industries since 2008.

We have become a leading manufacturer and supplier of Refrigerated Milk Vat and Electronic Valve Control Panels to the dairy sector controlling all the functions necessary for optimum control of the Farm Milk Vat Systems.

As well as condensing unit, rack and Chiller controls for OEM's we manufacture bespoke panels for HVAC and Electrical requirements.

As we have a wide range of in house expertise and products we can bring this all together to produce a complete turnkey control panel solution pretested and programmed before it goes to site, minimizing the installation time and quicker final on site commissioning.

Dairy Farm Panel Solutions

	Catalogue Ref No	Description	Application	Trade Price
	All panels are inclusive of Rotary Selector switch, timed and manual CIP wash functions.			
	CPS Dairy SML	Horizontal Dairy Panel Small (no outer enclosure)	Single Vat	**$649.00**
	CPS Dairy 2C	Dual Circuit Controller Panel (no outer enclosure)	Dual Vat	**$1,050.00**
	CPS Dairy SML V	Vertical Dairy Panel Small (no outer enclosure)	Single Vat	**$649.00**
	As well as including Rotary Selector switch, timed and manual CIP wash functions these panels below are in the IP66 outer enclosure with window.			
	CPS Dairy W	Standard Dairy Panel	Single Vat	**$849.00**
	CPS Dairy 2C W	Standard 2 Circuit Dairy Panel	Dual Vat	**$1,248.00**
	2 Point Temperature Logging Panel for the farm vat also inclusive of Rotary Selector switch, timed and manual CIP wash functions this panel below is in an IP66 outer enclosure with window.			
	CPS MilkCella SP2	MilkCella Dairy Panel - Temperature displays even when selector switch is not in refrigeration modes	Single Vat	**$1,395.00**

Under development product coming for a fully integrated logging and control solution for the Dairy Farm.

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Control Panel Solutions
A Division of Eurotec Limited

Dairy Farm Electronic Expansion Valve Controls

Catalogue Ref No	Description	Application	Trade Price
Includes all valve driver/s, sensors and standard cabling in IP66 rated enclosure. Suitable as a retro fit solution or for new installs. It has been proven that retro fitting these valves to an existing farm vat refrigeration plant (with thermostatic Expansion Valves) improves plant operational efficiency, faster milk cool down times and lower power consumption. Talk to our Sales Engineers today.			
CPS EVD 2D	2 x EEV Valve Driver*	Single Vat with base pads only	$1,348.00
CPS EVD 4D	4 x EEV Valve Driver*	Single Vat with both base and side pads	$1,998.00

* Electronic Valves not included as they need sizing to the plant

Standard Refrigeration Solutions:

Medium Temperature up to 14A, 3 phase Compressor Load

Suitable for the smaller 3 phase packaged condensing units. Panels include; 3 phase contactors, overloads for compressors only, Temperature Sensor and terminals for ease of connections which include interface wiring for safety circuit if required.

Catalogue Ref No	Description	Application	Trade Price
CPS MT6A	MT Single Comp Up to 6 Amps load	3 phase packaged condensing units	$848.00
CPS MT9A	MT Single Comp Up to 9 Amps load		$848.00
CPS MT11A	MT Single Comp Up to 11 Amps load		$848.00
CPS MT14A	MT Single Comp Up to 14 Amps load		$848.00
CPS MT-2-11A	MT Twin Comp Up to 11 Amps load each	Twin 3 phase Packaged Condensing units	$998.00
CPS MT-2-14A	MT Twin Comp Up to 14 Amps load each		$998.00

Low Temperature up to 9A, 3 phase Compressor Load

Suitable for the smaller 3 phase packaged condensing units. Panels include; 3 phase contactors, overloads for compressors only, Temperature Sensor and terminals for ease of connections and include interface wiring for safety circuit if required. Separate single phase circuits for Fan @ 5A Load, Defrost @ 10A Load.

Catalogue Ref No	Description	Application	Trade Price
CPS LT6A	LT Single Comp Up to 6 Amps load	3 phase packaged condensing units	$998.00
CPS LT9A	LT Single Comp Up to 9 Amps load		$998.00
CPS LT-2-6A	LT Twin Comp Up to 6 Amps load each	Twin 3 phase compressor contactors and overloads	$1,298.00
CPS LT-2-9A	LT Twin Comp Up to 9 Amps load each		$1,298.00

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Standard Electronic Expansion Valve Control

	Catalogue Ref No	Description	Application	Trade Price

Includes all valve driver/s, sensors and standard cabling in IP66 rated enclosure. Suitable as a retro fit solution or for new installs. It has been proven that retro fitting these valves to an existing refrigeration plant (with thermostatic Expansion Valves) improves plant operational efficiency, reflecting in better cool down times and lower power consumption. These panels are wired so each valve is independently controlled from its driver.

Please note electronic valves are not included as each site will need correct sizing for optimum control.

Talk to one of our Sales Engineers today.

	Catalogue Ref No	Description	Application	Trade Price
	CPS EVD 1	Single Valve Only		$948.00
	CPS EVD 2	2 Valve		$1,498.00
	CPS EVD 3	3 Valve		$2,300.00
	CPS EVD 4	4 Valve		$2,648.00

Larger EVD panels availanle on request. NB: It is recommended that the max length of cable between driver, valves and sensors is 30 meters) so in most instances we have found that distributed controls work best.

Bespoke Supervisor Solutions

Supervisory: Can be integrated into your panel or supplied as a stand-alone product

For the **smaller to medium sized** we recommend the Carel PlantWatch Pro3 supervisor.

The PWPro3 is a monitoring, control and optimisation solutions for small and medium sized supermarkets; cold rooms, restaurant chains, service stations and retrofits

For further technical information on the PWPro3, please refer to page 54 of this catalogue.

$P.O.A

Carel BOSS is the new local supervisory system for **medium to large** size installations. It can be accessed easily via a built in Wifi network from any mobile device without the need of special software or Apps.

The Carel BOSS can be integrated into:

- Industrial Refrigeration Plant Controls
- Fish, Meat and Fruit Processing Plants
- Large Ice Banks for industrial applications

For further technical information on the BOSS, please refer to page 54 of this catalogue or contact our Sales Engineers for more information.

$P.O.A

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Control Panel Solutions
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Bespoke Solutions for Industry

This section is a guide of those panels we have provided as solutions for Refrigeration, HVAC, Electrical and Instrumentation sectors. If you don't see a suitable panel listed, please contact us directly and we can disucss your requirements.

Refrigeration Bespoke Control Panels	Trade Price

These panels generally include all equipment for a complete turnkey control solution for Racks, Chiller and Freezer rooms, Defrost functions, Condenser Fan Control, Evaporator Fan control, VSD controls. All the associated electrical load equipment, switches, contactors, overloads, interlocks and interface controls.

	Multi Zone Gas Detection and Alarm will interface to any sensor/s with a 4-20mA or 0-10V output.	$P.O.A
	Lead and Lag Compressor, Auto and Manual Change Over	$P.O.A
	Blast and Hold Chillers / Freezers	$P.O.A

Panels for Racks used in:
- Cool Storage
- Industrial Refrigeration Plant
- Fish and Meat Processing
- Fruit processing and storage
- Large Ice Banks for Industrial Solutions
- Co2 solutions

All inclusive of CAD drawings, Electrical Load Controls, VSD's, pre-tested and programmed prior to site delivery.

For your site, specific requirements please contact our Sales Engineers today.

HVAC Bespoke Control Panels

		Trade Price
	Boiler and Burner applications, using standard off the shelf **Carel Universal Controllers.** Or a complete software package written for your unique applications utilizing our Innotech range of products.	**$P.O.A**
	Fresh Air Venting for large and small sites with interface to Fire Alarm Controls.	**$P.O.A**
	Upgrades of AHU controls fitting into existing on site enclosures.	**$P.O.A**
	Temperature and Humidity controls for critical spaces such as Server rooms and Bread Proving applications	**$P.O.A**

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Electrical Bespoke Control Panels

	Trade Price
DOL Starters for larger and small 3 phase motors.	**$P.O.A**
Level and Pump controls with Alarms	**$P.O.A**
Generator mains Auto and Manual change over systems	**$P.O.A**

Wireless/Solar Controls

	Trade Price
Remote monitoring and control of water tank levels and pumps, etc. Optional solar supply, if no mains is available	**$P.O.A**

Other Solutions:

Safety Lockout and interface solutions, Trace Heating , Wireless Pumping systems, unusual applications our speciality. Please contact our Sales Enginners today to discuss your requirements

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## I&M Bespoke Control Panels

	Trade Price

Multi point (10) pressure sensor logging system, Wi-Fi to smart-phone for direct access to real time information. Remote access available via Internet. Also, powered from a 12-volt DC source. This shows the versatility of our products using the Carel bOSS as the logger.

Please contact our Sales Engineers to discuss your requirements further.

$P.O.A

Saveris 2 Wireless Temperature logging. Stores information in cloud server for retrieval anytime.

Site ready with power supply and sensor inputs.

See page 135 for more information on this product.

$P.O.A

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cdc ELETTROMECCANICA

Process Timers & Temperature Control

- ¤ Timers, MCB style for distribution board mounting
- ¤ Timers, analogue & digital, plug-in, 48x48mm, multivoltage multifunction & multi-range 0.5 seconds to 60 hours
- ¤ Temperature controllers, analogue & digital, plug-in, 48mm for 'J & K' thermocouples & PT100 probes, multi-voltage, 8A

## DIN Modular (MCB Style) Multifunction/Multivoltage Process Timers

|	Catalogue Ref No	Description	Function(s)	Time Ranges	Control Voltage	Trade Price
	TV49	Multifunction Flashing/Delay Timer 1C/O	B, C, Ca, Ci, Da, K, Ta, Tv, W, Wa	-35 To +30°C	24-110VDC & 24-230VAC	**$140.00**
	TV56	Asymmetrical Flashing Timer 1C/O	Flashing Modes 04 Flash Off-On 04i Flash On-Off	1s+5s+10s+ 30s+1m+5m+	24-110VDC/ 24-230VAC	**$180.00**
	TU56	Asymmetrical Multifunction Timer 2C/O	Aa, Ac, As, Bb, Ic, Is, St, Tc, Ts & Xt	10m+30m+ 1h+10h		**$269.00**
	TU93*	Multirange/ Multifunction Timer 2C/O	B, C, Ca, Ci, Da, K, Ta, Tv, W, Wa		24-48VDC & 24-230VAC	**$212.00**

*With count up/count down LED's

Wiring Diagrams

Sc.561   A2 A1 B1 B2 B3 16 15 18 26 25 28   S R St AR1 AR2   S=Start R=Reset ST=Stop   V=Alimentazione / Supply   AR1-2=Relè d'uscita / Output relays

TU56, TU93

Sc.261   A2 A1 B1 16 15 18   S AR   S = START   V=Alimentazione / Supply   AR=Relè d'uscita / Output Relay

TV49

Sc.262   A2 A1 B1 16 15 18   AR   F04 A1 B1   F04i A1 B1   V=Alimentazione / Supply   AR=Relè d'uscita / Output relay
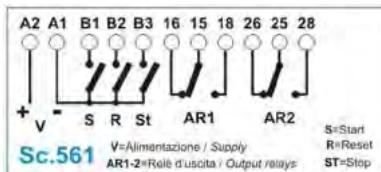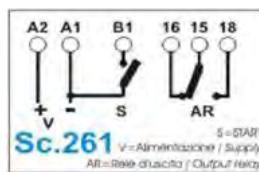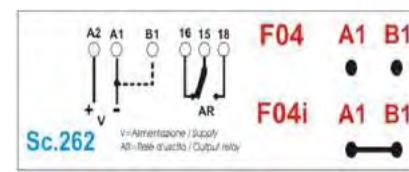
TV56

Function Codes

A	Delay-ON 1 instantaneous + 1 delayed contact	J	Fixed impulse delay-ON, 1 instantaneous + 1 impulse relay
Aa	2 delay-ON relays - different times. Single cycle	K	Pulse ON with timed OFF
Ac	Asymmetrical repeating timer ON-OFF	Mv	Percentage time continuous cycling, 2 asymmetrical relays
As	Equal repeating timer ON-OFF	St	Star-delta motor starting
B	Delay-ON with remote start	Ta	Instantaneous ON with close of remote switch or power ON
Bb	2 delay-ON relays with different times. Single cycle	Tc	Asymmetrical repeating timer ON-OFF with pause
C	Delay-OFF with remote start	Ts	Asymmetrical repeating timer ON-OFF with pause, single cycle
Ca	Equal repeating ON-OFF with remote start	Tv	Delay-ON with remote reset
Ci	Equal repeating OFF-ON with remote start	W	Delay ON with remote switch closed, delay OFF with switch open
Da	Instantaneous ON, timed OFF with remote start	Wa	Instantaneous ON with timed OFF with remote start. Reset via switch
Ic	FORWARD-REVERSE timer for reversing motor, continuous cycle	Xt	Single cycle timed pulse sequence
Is	FORWARD-REVERSE timer for reversing motor, single cycle		

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Analog Timer - Plug-In, 8Pin, Delay-Off & Multifunction

	Catalogue Ref No	Description	Function(s)	Time Ranges	Control Voltage(s)	Trade Price
	TC12/24	Plug-In Timer Panel Mounting 48x48mm	Delay-Off	0.5/1/5/10 Minutes	24VAC	$215.00
	TC82		6 Functions A, B, C, D, E, F	16 Ranges	24-230V AC/DC	$207.00

Analog Timer - Plug-In, 11Pin, Multifunction, Multivoltage

	Catalogue Ref No	Description	Function(s)	Time Ranges	Control Voltage(s)	Trade Price
	TC90	Plug-In Timer Panel Mounting 48x48mm, With Memory	10 Functions A, B, C, D, E, F, G, H, L, M	0-240Hrs 10 Ranges	24-48VDC & 24-230VAC	$242.00
	TC93	Plug-In Timer Panel Mounting 48x48mm, Back Lit	15 Functions Am, Bm, Ci, Cm, Da, Dm, J, Km, Lv, Mv, Sm, St, Tm	0-60Hrs 12 Ranges		$268.00

Digital Multifunction Timer - Integral Terminals, Multivoltage

	Catalogue Ref No	Description	Function(s)	Time Ranges	Control Voltage(s)	Trade Price
	TC40/24	Timer Panel Mounting 48x48mm	B, C, E, F1, F2, H1, H2, S1, S2	0-9999 Hrs	24VAC/DC	$322.00
	TC40/230				110-230VAC	$322.00

Analogue Function Codes

Code	Description	Code	Description
A	Delay ON, 1 instantaneous & 1 delayed relay	Km	Relay on during timing at the turn off of the command, 1 delayed + 1 timed relay
Am	Relay on delay with start command, 1 instant + 1 timed	L	Percentage time single cycle, 1 instantaneous + 1 percentage relay
B	Delay ON, 2 delayed relays	Lv	Percentage time single cycle with start command, two relays with a symmetrical output
Bm	Relay on delay with start command, 2 delayed relays	M	Percentage time continuous cycle, 1 instant + 1 percentage relay
C	ON during timing; 2 relays	Mv	Percentage time continuous cycle with start command, 2 relays with a symmetrical output
Ci	Equal repeating OFF-ON with remote start		
Cm	Relay on during timing with start command, two relays	Sm	Totalizer with delay at the start command, 2 relays
D	ON during timing; 1 instantaneous + 1 ON timing relay	St	Star-Delta timer, 2 relays, 150ms delay on changeover
Da	Relay on delay at turn off, two temporized relays	Tm	Totalizer with on delay and pulsed output with start command, 2 relays
Dm	Relay on during timing with start command, 1+1 relay	Tv	Totalizer with start/stop command, 2 relays with a symmetrical output
E	Flasher continuous cycle; 2 relays with asymmetrical cycle	W	Relay on delay with a bistable start command, two relays
F	2 pulsed relays, delay ON (1s) delayed		
G	ON during timing; Two contacts and memory during counting		
H	ON during timing with one contact instant & memory during counting		
J	Pulsed relay on delay with start command, 1 instant + 1 timed relay		

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Analog Temperature Controller - 8Pin, Multivoltage, On-Off Control

Catalogue Ref No	Description	Temp Range	Sensor	Control	Trade Price
RC918J30R	Plug-In Analog Temperature Controller 48x48mm 1CO	0-300°C	J, K + PT100	24-230V AC/DC	$281.00
RC918J70R		0-700°C			$281.00
Note:	RC918 includes LED bar graph.				

Analog Temp Control - 11Pin, Multivoltage, On-Off Control + Alarm

Catalogue Ref No	Description	Temp Range	Sensor	Control	Trade Price
RC911V30R	Plug-In Analog Temperature Controller 48x48mm 1CO + Alarm	0-300°C	J, K + PT100	24-230V AC/DC	$313.00
RC911V70R		0-700°C			$313.00
Note:	RC911 includes LED bar graph.				

Digital Temp Control - Integral Terminals, On-Off Control, Programmable

Catalogue Ref No	Description	Temp Range	Sensor	Control	Trade Price
RC481A/24	Digital Temperature Controller 48x48mm 1CO + Alarm	-200-+1999°C (Dependant on probe spec)	J, K + PT100	24V AC/DC	$431.00
RC481A/230				100-240V AC	$431.00
Note:	The RC48 digital controller can be set to + or -1999°C, however all probes are unable to operate below absolute zero so it is not possible to measure a temperature below absolute zero, -273.15°C.				

Sensor/Thermocouple Probes

Catalogue Ref No	Description	Sensor		Temp Range	Trade Price
PT100000A1	PT100 Sensor/Probe IP65	PT100		-70 To +250°C	$108.00
TCJ0000001	Thermocouple/Probe IP67	Type J	3.0m	0-550°C	$71.00
TCK0000001		Type K		0-800°C	$182.00
NB: Supply includes sensor & cable only					

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Process Units & High Precision Sensors for Liquid and Gas processing in the Food & Beverage Industries

Best of Technology. Centec.

Eurotec is proud to be appointed as the New Zealand distributor for German manufacturer Centec. Centec's range offers solutions for Brewery, Dairy and Winery systems along with high precision sensors. The focus of our product range in the NZ market is for the Brewery and Food manufacturing sectors.

With more than 40 years of experience Centec develop and manufacture units and sensors for liquid and gas processing in food, beverage, pharmaceutical, chemical and energy industries.

Centec sensors are applied in laboratory and process environments as "stand alone" devices or part of a process control system. They ensure that products are produced to consistently high standards and that processes run extremely efficient with the least consumption of raw materials.

The combination of sensors and systems offered by Centec is unique. No other company provides this scope of supply from a single source!

Food and Beverage Industries:

The largest brewery groups in the world trust Centec technology, they design and manufacture automated process skids for the production of beers and beer based mixed drinks.

Centec equipment is used throughout the entire brewing process. e.g. for water purification and water deaeration, wort cooling and wort aeration, yeast dosing and yeast management, blending and carbonation, product sterile filtration and flash pasteurization. Centec technology includes high precision sensors for accurately measuring extract, alcohol, O2 and CO2.

For soft drinks, dairy and food industries, a large variety of customized process units are available. Centec have decades of experience in water treatment, carbonation, nitrogenation, liquid blending, flash pasteurization and cleaning-in-place.

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O₂ Measurement

	Model	Applications	Trade Price
	OXYTRANS TR	• **Food & Drink:** Brewery, Soft Drinks, Wine & Spirits, Dairy & Food • **Pharma:** Pharmaceutical, Biotechnology • **Chemistry:** Chemical	$P.O.A
	OXYTRANS M	• **Energy:** Electronics, Semiconductor, Solar Energy, Bio Fuel, Power Plants (coal & nuclear), Power Supply Stations	$P.O.A

CO₂ Measurement

	CARBOTEC TR-PT	• **Food & Drink:** Brewery, Soft Drinks, Wine & Spirits, Dairy & Food	$P.O.A
	CARBOTEC NIR		$P.O.A
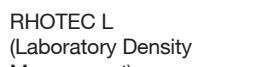
Concentration: Density Measurement

	RHOTEC	• **Food & Drink:** Brewery, Soft Drinks, Wine & Spirits, Dairy & Food • **Pharma:** Pharmaceutical, Biotechnology • **Chemistry:** Chemical, Petrochemical • **Energy:** Electronics, Semiconductor, Bio Fuel, Power Plant (nuclear), Power Supply Stations	$P.O.A
	RHOTEC "AlcTax")	• **Food & Drink:** Brewery, Wine & Spirits	$P.O.A

Sound Velocity Measurement

	SONATEC	• **Food & Drink:** Brewery, Soft Drinks, Wine & Spirits, Dairy & Food • **Pharma:** Pharmaceutical, Biotechnology • **Chemistry:** Chemical, Petrochemical • **Energy:** Electronics, Semiconductor, Bio Fuel,	$P.O.A
	PLATOMONITOR	• **Food & Drink:** Brewery	$P.O.A
	SONATEC HW		$P.O.A

Density & Sound Velocity Measurement

	COMBITEC	• **Food & Drink:** Brewery, Soft Drinks, Wine & Spirits, Dairy & Food • **Pharma:** Pharmaceutical, Biotechnology • **Chemistry:** Chemical, Petrochemical • **Energy:** Electronics, Semiconductor, Bio Fuel, Power Plant (nuclear)	$P.O.A
	BEERMONITOR	• **Food & Drink:** Brewery	$P.O.A
	RHOTEC L (Laboratory Density Meaurement)	• **Food & Drink:** Brewery, Soft Drinks, Wine & Spirits, Dairy & Food • **Pharma:** Pharmaceutical, Biotechnology • **Chemistry:** Chemical, Petrochemical • **Energy:** Electronics, Semiconductor, Bio Fuel, Power Plant (nuclear)	$P.O.A

Sensor Control System

	MCM 68	• **Food & Drink:** Brewery, Soft Drinks, Wine & Spirits, Dairy & Food • **Pharma:** Pharmaceutical, Biotechnology • **Chemistry:** Chemical, Petrochemical • **Energy:** Electronics, Semiconductor, Solar Energy, Bio Fuel, Power Plants (coal & nuclear), Power Supply Stations	$P.O.A

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Thermostats

¤ Standard immersion thermostats for hot water cylinders
¤ High temperature immersion thermostats for the dairy industry
¤ Consumer adjustable thermostats for catering equipment, spa's, urns and incubators

Water Heater Thermostats

	Catalogue Ref No	Description	Size	Contacts	Setting Range	Trade Price
	TSD00701		"7"" 172mm		0...80°C	$51.00
	TSD01101		"11"" 266mm		30...80°C	$55.00
	TSDH0701	Immersion Thermostat	"7"" 172mm	20Amps SPST	40...120°C Hi Temp - Dairy Thermostat	$63.00
	TSDH1101		"11"" 266mm		70...120°C Hi Temp - Dairy Thermostat	$68.00
	TSDR0704		"7"" 172mm		0...73°C Safety Cut-Out @ 87°C +/- 7°C	$59.00
	TSDR1110		"11"" 266mm		22...75°C Safety Cut-Out @ 81°C +/- 5°C	$61.00

HWC Thermostats	Thermostat failure principally due to over current conditions created by; element failure, rapid/frequent switching, water quality, and under voltage.

Consumer Adjustable Thermostats

	Catalogue Ref No	Description	Size	Contacts	Setting Range	Trade Price
	GTLH3093		1450 x 122 x 6mm		0...40°C Spa's / Incubators / A-C	$77.00
	GTLH3094		1430 x 74 x 6mm		30...110°C Spa's / Incubators / A-C	$109.00
	GTLH0189*		1430 x 69 x 6mm		30...110°C Spa's / Incubators / A-C	$99.00
	GTLH0188*	Thermostat + Knob	830x 196 x 3mm	20Amps	60...205°C Spa's / Incubators / A-C	$99.00
	GTLH0187		1621 x 171 x 3mm		50...320°C Spa's / Incubators / A-C	$83.00
	GTLH3176		633 x 83 x 6mm		0...120°C	$53.00
	GTLH0118		695 x 70 x 6mm		0...80°C	$53.00
	*Note:	"Includes ""stuffing"" gland"				
	BBSC0033	With Man Reset O'temp @90°C	500 x 108 x 6mm	20Amps	0...80°C	$102.00
	BOT30047	Thermostat Mounting Kit			0...80°C	$10.00
	BOT30031	(Knob, Bezel & 2 Screws)			0...120°C	$10.00

Preventative Actions	Check supply voltage, lime build up and set value. Check the element condition and correct fuse/MCB protection, replace element & thermostat.

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Critical Environment Technologies™

Gas Detection

- ¤ Gas detectors for common gases such as Carbon Monoxide, Carbon Dioxide, Nitrogen Dioxide, Nitric Oxide, Ammonia, Chlorine, Ozone, Combustible Gases like Methane and Propane, Oxygen and more.
- ¤ For commercial, light industrial & public buildings

Standalone CO Controllers For Car Park Buildings

	Catalogue Ref No	Description	Range	Trade Price
	SCC-A-NO2B	Self Contained NO2 Sensor	0-10ppm	**$1,993.00**
	SCC-A-TCO	Self contained CO Sensor	0-200ppm	**$1,307.00**

Gas Detection Transmitters

	Catalogue Ref No	Description	Output	Trade Price
	LPT-TCO	CO Sensor/Transmitter	4-20mA Output	**$779.00**
	LPT-TCO-S	CO Sensor/Transmitter (Splash Proof)		**$849.00**

Calibration & Function Service Checks

	-	Annual Calibration/Function Check & Certification	On Site (Auckland Only)	**POA**
	-		Return To Base	**POA**

Special Applications

CETCI gas detectors are also used to detect gases in special applications including commercial swimming pools, water purification, arenas, wineries & breweries, waste water treatment & many more.

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Food Industry & Vaccine Thermometers, Data Loggers

- ¤ "Lollipop" & needle probe thermometers for HACCP"
- ¤ Fridge thermometers for audited vaccine storage
- ¤ USB temperature data loggers

Waterproof Thermometers

	Catalogue Ref No	Description	Temperature Range	IP Rating	Trade Price
	11050	Lollipop Thermometer	-40 to +155°C	IP67	$62.00
	11063	Needle Probe - Jumbo Display	-40°C to +155°C	IP56	$68.00
	Note:	Battery = LR44/A76 1.5V			

USB Data Loggers (Flash Link®) LCD With Red LED Alarm

	Catalogue Ref No	Description		Temperature Range	IP Rating	Trade Price
	20917	Single Use Transport Logger		5/15/45/75 days Free Software	IP54	$67.00
	20901 *	Re-useable Logger	3823 Data Points	-40°C To +65°C		$120.00
	20902 *	Re-Usable Logger & Immersion Probe		-40 To +85°C	IP67 With Silicon Cap	$195.00
	Note:	Battery = CR2032 Lithium (18 months)				
	* 20412	Software License for USB Data Loggers & Thermometers				$126.00
	Important:	A license is required for full functionality. One license is required per PC. Without a license, data can be read on the instrument, but not downloaded.				

Fridge Logger/Thermometer With Audible Alarm

	Catalogue Ref No	Description	Temperature Range	Trade Price
	20932 (1mtr Probe)	Vaccine Fridge Min/Max Audible Alarm Logger & Glycol Filled Vial	-40°C +40°C Free Software	$249.00
	12215 (3mtr Probe)	Certified/Calibrated Fridge Alarm Thermometer & Glycol Filled Vial	Int = -10 To +50°C Ext = -50 To +70°C	$115.00

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High Temperature Loggers

	Catalogue Ref No	Description	Temperature Range	IP Rating	Trade Price
	20615	High Temp Stainless Steel Data Logger			$1,577.00
	20616	High Temp Stainless Steel Data Logger with external probe	-40 °C - 150 °C	Submersible	$1,577.00

Brix & Salinity Refractometers

	Catalogue Ref No	Description	Trade Price
	12223	Digital Brix Refractometer, 0-45%	$515.00
	12220	Analogue Brix Refractometer, 0-32%	$249.00
	24240	Salinity Refractometer 0-10%	$263.00

Brix Meter

- Measures concentration of sugar and dissolved solids in aqueous solution
- Ideal for on-site measurement of juices and other sugar-based liquids
- Determine fruit quality during harvest, shipping, receiving, processing, storage

Salinity Refractometer

- Measures concentration of salt and dissolved solids in aqueous solution
- Provides reading in parts per thousand (PPT) and specific gravity (SG)
- Automatic Temperature Compensation (ATC)
- Ideal for on-site measurements in processing and storage areas, or in the field
- Determine salinity during preparation of pickles, seafood products, frozen vegetables and fruits

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Din Rail Power Supply's

	Catalogue Ref No	Description	Primary	Secondary	Capacity	Size	Trade Price
	HDR3012				2.0A 24w		$73.00
	HDR4512			12VDC	3.5A 42w		$83.00
	HDR6012	Switchmode Power Supply IP20 DIN Rail Mount Insulated	85-264V AC / 120-370V DC		5.0A 54w	93x78x56mm	$94.00
	HDR3024				1.5A 36w		$73.00
	HDR4524				1.9A 48w		$83.00
	HDR6024			24VDC	2.5A 60w		$94.00
	HDR7524	Switchmode Power Supply DIN Rail Mount			3.2A 76w	125x55x100mm	$136.00
	HDR12024				5.0A 120w	125x65x100mm	$157.00

HDR power supply's available in 12VDC and 24VDC outputs HDR30/45/60

Transformers

	Catalogue Ref No	Description	Primary	Secondary	Capacity	Size	Trade Price
	TRA12UN100			12VAC			$22.00
	TRA2400001	Encapsulated Transformer	230VAC	24VAC	3VA	60 x 45 x 35mm	$22.00
	TRA0060000			12/24VAC	6VA		$29.00
	VCM25	Control Transformer		12/24VAC	25VA	90 x 70 x 55mm	$44.00
	VCM50		230VAC		50VA	100 x70 x 60mm	$61.50
	Transformer 63VA	Transformers		24VAC	63VA	90 x 100 x 80mm	$102.00
	Transformer 100VA				100VA		$125.00
	TRADR4W024	DIN Rail Mtg Xformer 2M	230VAC	24VAC	4VA	2 x 17.5mm DIN Modules	$52.00
	TRADR1W024				10VA		$53.00

EUROTEC
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Dwyer

Dwyer Gauges

¤ "Industry standard" manometers & Magnehelic® gauges"
¤ Standard stocked range + specials on request

Series 2000
Back View
Front View

Manometers

	Catalogue Ref No	Description	Pressure	Trade Price
	MARK11 MODEL M-700Pa	Manometer	10-0-700pa	**$123.00**
	1227M	"Manometer - ""U"" Inclined"	-	**$255.00**
	134896	Replacement Red Oil - 250mL	-	**$90.00**

Series 2002 - Magnehelic® Differential Pressure Gauges

2000-60PA		0-60pa	**$268.00**
2000-125PA		0-125pa	**$245.00**
2000-250PA		0-250pa	**$245.00**
2000-500PA	Magnehelic Gauge (114.3mm Ø cut out)	0-500pa	**$245.00**
2000-750PA		0-750pa	**$245.00**
2000-1KPA		0 -100pa x 10	**$245.00**
2000-60/0/+60PA		-60 / 0 / + PA60	**$268.00**

Magnehelic®

Clear plastic face

Precision litho-printed scale

Red tipped pointer

Pointer stops

Zero adjustment screw

"""0"" ring seal"

Die cast aluminium case

Silicone rubber diaphragm

Calibrated range spring

Ambient temperature range: 20° to 140°F

"Rated total pressure: 20"" Hg to 15 PSIG (for applications with high cycle rate within gauge total"

pressure rating, next higher rating is recommended)

"Connection: 1/8"" NPT high and low pressure taps, duplicated - one pair side and one pair on the back"

Accuracy: ±2% of full scale (3% on 0 and 4% on -00 ranges), throughout range at 70°F

Options: Transparent overlays; Adjustable signal flag; Portable units; Air filter gauge

accessory package

"Standard accessories: Two 1/8"" NPT plugs for duplicate pressure taps, two 1/8"" pipe"

thread to rubber tubing adapters, and three flush mounting adapters with screws

(mounting ring and snap ring retainer substituted for 3 adapters in MP & HP gauge accessories)
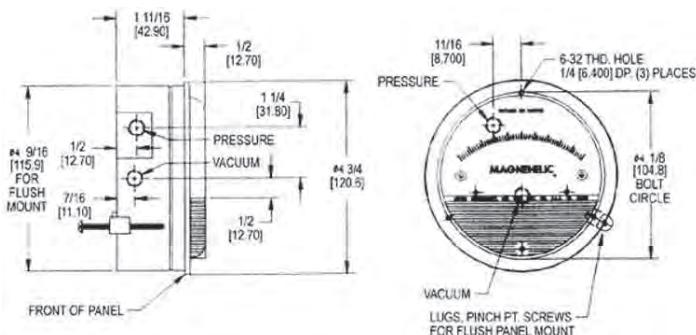
HVAC Sensors & Transmitters

- ¤ Temperature & humidity
- ¤ Carbon Dioxide sensors
- ¤ Velocity sensors
- ¤ HVAC sensors for a wide range of applications

HVAC Humidity/Temperature Sensors - Working Range; 10-95%

Catalogue Ref No	Description	IP Rating	Sensor Type	Mounting	Output	Trade Price
EE10-FT3	Humidity & Temperature Transmitter	IP20	PT100 Internal	Wall	0 - 10V	$314.00
EE10-FT6		IP20	PT100 Internal	Wall	4 - 20mA	$314.00
EE160-HT3XXPAB		IP65	Ext Probe		0 - 10V	$356.00
EE160-HT3XXPBB		IP65	Probe	Duct	0 - 10V	$356.00
EE160-HT6XXPBB		IP65	Probe	Duct	4 - 20mA	$356.00

Humidity/Dew Point/Temperature Sensors - High Demanding Applications

Catalogue Ref No	Description	IP Rating	Sensor Type	Mounting	Output	Trade Price
EE210-HT3PADB	Humidity & Temperature Transmitter	IP65	-	Wall with display	0 - 10V	$873.00
EE210-HT3PBxB		IP65	Probe 200mm	Duct	0 - 10V	$691.00
EE210-HT6PCxB		IP65	Remote Probe	-	4 - 20mA	$1,023.00

Carbon Dioxide (CO2) Sensors & Transmitter

Catalogue Ref No	Description	IP Rating	Range	Mounting	Output	Trade Price
EE80-2CS	CO2 Sensor with no display	IP30	0-2Kppm	Wall	Switch	$416.00
EE80-2CSD04	CO2 / Temperature Sensor with Display	IP30	0-2Kppm	Wall	Switch	$477.00
EE850-C3XXFP-002	CO2	IP65	0 - 2K ppm 200mm probe	Duct	0-10V	$810.00
EE820-C3XPP-005	CO2 Transmitter	IP54	0-5K ppm	Wall	0-10V	$1,020.00
EE820-C6XPP-005	CO2 Transmitter	IP54	0-5K ppm	Wall	4-20mA	$1,020.00
EE820-C6XPP-010		IP54	0-10K ppm	Wall	4-20mA	$1,114.00

HVAC Velocity Sensor

Catalogue Ref No	Description	IP Rating	Range	Mounting	Output	Trade Price
EE65-VB5	Velocity Sensor	IP65	200mm	Duct	0-10V	$663.00

Note: **Other models and versions of E+E transmitters are available on request**

E+E ELEKTRONIK — YOUR PARTNER IN SENSOR TECHNOLOGY

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Industrial Application Sensors and Transmitters

	Catalogue Ref No	Description	Measuring Range	Mounting	Output	Trade Price
	EE310	High-end Humidity and Temperature Transmitter			0-1/5/10V, 0/4-20mA	$P.O.A
	EE300Ex	Humidity and Temperature Transmitter for intrinsically safe applications	0-100% RH -40...180 °C	Wall	4-20 mA (2-wire)	$P.O.A
	EE33	Humidity and Temperature Transmitter for permanent high-humidity and polluted environment			0-1/5/10 V or 0/4-20 mA	$P.O.A
	EE23	Cost optimised transmitter for industrial and high-end HVAC applications	0...100% RH -40...120 °C	Wall	0-5/10 V, 0/4-20mA	$P.O.A
	EE220	Humidity and temperature transmitter with interchangeable probes	0...100% RH -40...80 °C		0-1/10 V or 4-20 mA	$P.O.A
	EE354	Miniature dew point meter for refrigeration dryers	-20...50 °C		Modbus RTU and 4-20mA	$P.O.A
	EE355	Dew point sensor / transmitter for industrial drying processes	-60...60°C	In-line	0-5/10V, 0/4-20mA	$P.O.A
	EE364	Compact Moisture in Oil Transmitter	-40...80°C or -40...100 °C		2 x 4-20 mA / MODBUS RTU	$P.O.A
	EE371	Dew point sensor / transmitter in compact design with display	-60...60 °C		0-1/5/10 V or 0/4-20 mA	$P.O.A
	EE35	Dew point and temperature transmitter	-60...60 °C or 0...60 °C		0-5/10V, 0/4-20mA	$P.O.A
	HUMLOG20 THI	Temperature & Humidity Data Logger		Wall	-	$P.O.A
	HUMLOG20E	Data Logger for Humidity, Temp, Air Pressure & CO2	-20...50 °C	Wall	-	$P.O.A
	OMNIPORT 30	Omniport Multifunctional Handheld Meter for precise measurement of humidity, temperature, dew point, CO2, air velocity, volumetric flow and air pressure.	0...50°C	Handheld	-	$P.O.A

Temperature Calibration Sources

Accurate temperature measurements are essential if you need to meet standards, regulations or guidelines. Ensuring that your thermometers are reading accurately is an essential part of this process and using a reference calibration source can help you achieve this.

We have a range of temperature calibration sources that allow you to verify the readings from probe or IR thermometers, providing you with the confidence that your measurements are accurate.

CSEC Series Dry Block Calibrators - Economy

Catalogue Ref No	Description	Range	Accuracy	Trade Price
CSEC 1		+ 30.0 to + 200.0 °C	± 0.2°C 1 digit	$1,542.00
CSEC 2	Dry Block Temperature Calibratior	40.0°C below ambient to +85.0°C		$2,604.00
CSEC 3		-30°C below ambient (or -10°C min) to +105.0°C	±0.3 °C 1 digit	$2,291.00

CS Series Precision Temp Dry Block Calibrators

Catalogue Ref No	Description	Range	Accuracy	Trade Price
CSEC 173		+30.0°C to +200.0°C	± 0.2°C ± 1 digit	$1,984.00
CSEC 174	Dry Block Temperature Calibratior	40.0°C below ambient to +85.0°C		$2,457.00
CSEC 175			± 0.05°C ± 1 digit	$2,880.00

CSEC Series - Economy Temperature Calibration Sources

The CSEC Series is an economic range of temperature calibration sources and is available in three versions, each of which provide a highly accurate, very stable temperature output which is ideal for the calibration thermometers as well as general purpose temperature measurement instruments.

- For use with probe thermometers
- Standard front 7-hole probe insert
- PID Controller with platinum film sensor
- High accuracy & stable temperature source
- User adjustable temperature
- User adjustable °C or °F display

CSEC Series - Precision Temperature Calibration Sources

The CS Series is available in three versions, each of which provide a highly accurate, very stable temperature output which is ideal for the calibration and servicing of reference thermometers as well as general purpose temperature measurement instruments.

All of the standard CS Series can also be used with an external reference thermometer, such as the Eurolec RT162 or PC Temp RT2, to provide a complete reference, verification and calibration system.

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Industrial Switchgear, Crane & Hoist Controls

- Limit switches (miniature DIN), insulated & aluminium
- Micro switches
- Foot switches
- Crane/pendant controls
- Tail lift controls

FT1/FA1 Range - Mini Limit Switches, IP65

	Insulated Thermoplastic	Aluminium	Contact Action	Contacts	Operating Head	Trade Price Insulated	Trade Price Aluminium
	FT1P31Z11	FA131Z11	Snap		Steel Plunger	$52.00	$71.00
	FT1P31X11	FA131X11	Slow		Steel Plunger	$58.00	$78.00
	FT134Z11	FA134Z11	Snap		Roller Plunger	$61.00	$83.00
	FT134X11	FA134X11	Slow		Roller Plunger	$61.00	$83.00
	FT1P32Z11	FA132Z11	Snap		Roller Lever Plunger Horizontal Action	$61.00	$83.00
	FT1P32X11	FA132X11	Slow		Roller Lever Plunger Horizontal Action	$61.00	$83.00
	FT1P33Z11	FA133Z11	Snap		Roller Lever Plunger Vertical Action	$61.00	$83.00
	FT1P33X11	FA133X11	Slow		Roller Lever Plunger Vertical Action	$61.00	$83.00
	FT138Z11	FA138Z11	Snap		Roller Crank	$61.00	$83.00
	FT138X11	FA138X11	Slow		Roller Crank	$61.00	$83.00
	FT139Z11	FA139Z11	Snap	1NO+ 1NC	Adj Roller Crank	$61.00	$96.00
	FT139X11	FA139X11	Slow		Adj Roller Crank	$61.00	$83.00
	FT135Z11	FA135Z11	Snap		Spring Lever/ Wobble Stick	$61.00	$83.00
	FT135X11	FA135X11	Slow		Spring Lever/ Wobble Stick	$61.00	$83.00
	FT136Z11	FA136Z11	Snap		"""Cats Whisker""	$61.00	$83.00
	FT136X11	FA136X11	Slow		"""Cats Whisker""	$61.00	$83.00
	FT137Z11	FA137Z11	Snap		Variable Length Steel Rod 3mm Ø	$61.00	$83.00
	FT137X11	FA137X11	Slow		Variable Length Steel Rod 3mm Ø	$61.00	$83.00
	FT140X11	FA140X11	Snap		Rubber Roller	$61.00	$83.00
	FT140Z11	FA140Z11	Slow		Rubber Roller	$61.00	$83.00
	FT141Z11	FA141X11	Snap		Rubber Roller	$61.00	$83.00
	FT141X11	FA141Z11	Slow		Rubber Roller	$61.00	$83.00

Miniature DIN limit switches in thermoplastic (double insulated) and aluminium. Thermoplastic type also available with latch & reset mechanisms.

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FCT Range - Thermoplastic Mini Limit Switches, IP67

	Back Entry	Side Entry	Contact Action	Contacts	Operating Head	Trade Price
	FCT2V01X11	FCT2L01X11			Steel Plunger	$97.00
	FCT2V02X11	FCT2L02X11			Roller Plunger	$100.00
	FCT2V03X11	FCT2L03X11			90° Roller Plunger	$104.00
	FCT2V04X11	FCT2L04X11	Slow	1NO+ 1NC	Roller Lever 14mm Ø	$104.00
	FCT2V06X11	FCT2L06X11			Adj Roller Crank	$104.00
	FCT2V07X11	FCT2L07X11			Threaded Roller Plunger	$104.00
	FCT2V08X11	FCT2L08X11			Threaded Side Roller Plunger	$104.00

MFI Range - Micro Switches

¤ High reliability snap action, changeover contacts
¤ Silver alloy self cleaning contacts
¤ Positive opening NC contact

Cat Ref.	Description	Details	Trade Price
MFI		Pin Plunger	$10.00
MFI1		Long Roller Lever	$13.00
MFI2		Simulated Roller Lever	$13.00
MFI3	MF Range Micro Switch With Tab Terminals	Std Roller Lever	$13.00
MFI4		Long Lever	$13.00
MFI5		Lever	$13.00
MFI6		Short Lever	$13.00

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IP Range - Foot Switches, IP54

	Cat Ref.	Description	Detail	Contacts	Trade Price
	IP7007	IP Range Safety Foot Switches - With Guard	Trigger Mech - Requires Positive Action For Pedal Operation	Slow Break 1NO	$143.00
	IP7008			Slow Break 2NO	$152.00
	IP7011	IP Range Std Foot Switches - With Guard	"With Pedal Latching Device, Without Trigger Mech"	Slow Break 1NO	$143.00
	IP7006I	IP Range Std Foot Switches - Without Guard	Without Rest Position Trigger Mechanism	Slow Break 1NO+1NC	$104.00
	IP7007EM	IP Range Std Foot Switches - With Guard + Emergency Stop & Mtg Post	With Trigger Mechanism And EN ISO 13850 Emergency Stop Operator	Slow Break 1NO	$313.00
	IP7015EM			Slow Break 2NO, 2Spd	$395.00
	IP7018	IP Range Std Foot Switch (Double) - With Guard	With Trigger Mech Requires Positive Action To Allow Pedal Operation	Slow Break 1NO	$300.00
	IP7019			Slow Break 2NO	$313.00
	IP7018EM	IP Range Std Foot Switch (Double) + Emergency Stop & Mtg Post	With Trigger Mech Requires Positive Action To Allow Pedal Operation	Slow Break 1NO	$443.00
	IP7019EM			Slow Break 2NO	$471.00

Pneumatic Foot Switches

	Cat Ref.	Description	Detail	Contacts	Trade Price
	IP7023	IP Range Pneumatic Foot Switches - With Guard	Pneumatic With Trigger Mechanism	"With 1/4" 5 Way Valve"	$242.00
	IP7024		"Pneumatic With Pedal Latching Device & Without Trigger Mech"		$275.00

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P02 PTRM Range - Pendant Controllers IP65

	Cat Ref.	Description	Buttons	Contacts	Dimensions L x W x D	Trade Price
	P021			2 x 1NO		$93.00
	P022			2 x 2NO		$103.00
	P024	Single Speed Motor Control	2 Up/Dn	2 x 1NO+1NC	263 x 58 x 60mm	$103.00
	P02D2			2 x 1NO 2 Speed		$115.00
	P02CD	1 Speed Motor Control 1kW		1NC+ 2NO		$115.00

	Cat Ref.	Description	Buttons	Dimensions L x W x D	Trade Price
	P02RM	Single Speed Motor Control	"E-Stop Turn-To-Release + 2 Way Spring Return Centre Off"	263 x 58 x 60mm	$103.00

P03 PTRM Range - Small Hoist Pendant Controllers IP65

	Cat Ref.	Description	Buttons	Contacts	Dimensions L x W x D	Trade Price
	P031			1NC+ 2 x 1NO		$114.00
	P032	Hoist Control Single Speed	3 Push Buttons E-Stop + Up + Down	1NC+ 4 x 1NO	340 x 65 x 90mm	$123.00
	P033			1NC+ 6 x 1NO		$134.00
	P03CD	Hoist Control 1 Speed 1kW		2NC+1NO 4NO+2NC		$142.00
	P03D2	Hoist Control 2 Speed		1NC+ 4 x 1NO		$125.00
	P03CH	Hoist Control Single Speed	2Pos Key Sw + Up + Down	1NC+ 2NO		$136.00

Custom Assembly

Custom assembled pendant controls can be supplied ex-stock to customers exact specifications. Possibilities include up to 14 operators (push buttons, emergency stop switches, selector & key switches, indicator lights) with single & two-speed contacts. Spare parts and accessories are also available ex-stock to support Giovenzana clients

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'PL' Range - Single Row Modular Pendant Enclosures

Cat Ref.	Description	Push Buttons	Contacts 1 Speed	Contacts 2 Speed	Trade Price
PL05E			4NO+1NC	-	$188.00
PL05D2E		4 + E-Stop	2NO+1NC	2NO	$208.00
PL05D4E			1NC	4NO	$230.00
PL07E			5NO+1NC	-	$293.00
PL07D2E		6 + E-Stop	4NO+1NC	2NO	$309.00
PL07D4E	Single Row Pendant Control IP65 c/w Push Buttons & Contacts		2NO+1NC	4NO	$309.00
PL07D6E			1NC	6NO	$309.00
PL08E			6NO+1NC	-	$297.00
PL08D2E		6 + E-Stop + Start Alarm	4NO+1NC	2NO	$313.00
PL08D4E			2NO+1NC	4NO	$313.00
PL08D6E			1NC	6NO	$350.00
PL10E		8 + E-Stop + Start Alarm	8NO+1NC		$363.00
PL12E		10 + E-Stop + Start Alarm	10NO+1NC		$409.00

'PLB' Range - Double Row Modular Pendant Controls

Cat Ref.	Description	Push Buttons	Contacts 1 Speed	Contacts 2 Speed	Trade Price
PLB04E		Up & Down + E-Stop & Start Alarm	2NO+1NC	-	$188.00
PLB04D2E			1NC	2NO	$208.00
PLB06E			4NO+1NC	-	$230.00
PLB06D2E		4 PB's + E-Stop & Start Alarm	2NO+1NC	2NO	$247.00
PLB06D4E	Double Row Pendant Control IP65 c/w Push Buttons & Contacts		1NC	4NO	$279.00
PLB08E			6NO+1NC	-	$264.00
PLB08D2E		6 PB's + E-Stop & Start Alarm	4NO+1NC	2NO	$288.00
PLB08D4E			2NO+1NC	4NO	$312.00
PLB08D6E			1NC	6NO	$336.00
PLB10E		8 PB's + E-Stop & Start Alarm	8NO+1NC		$385.00
PLB12E		10 PB's + E-Stop & Start Alarm	10NO+1NC		$403.00
PLB14E		12 PB's + E-Stop & Start Alarm	12NO+1NC		$419.00

| AUCKLAND 09-579 1990 | WELLINGTON 04-499 3591 | CHRISTCHURCH 03-366 0017 |
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'PL' Range - Single Row Modular Pendant Enclosures

	Cat Ref.	Description	Dimensions	Cable Entry	Positions	Trade Price
	PL05K		345x73x68mm	7-18mm Ø	5	$71.00
	PL07K		495x73x68mm		7	$88.00
	PL08K	Single Row Pendant Control Enclosure, IP65	530x73x68mm		8	$92.00
	PL10K		640x73x68mm	9-21mm Ø	10	$96.00
	PL12K		710x73x68mm		12	$104.00

'PLB' Range - Double Row Modular Pendant Enclosures

	Cat Ref.	Description	Dimensions	Cable Entry	Positions	Trade Price
	PLB04K		345x108x65mm	9-21mm Ø	4	$62.00
	PLB06K		399x108x65mm		6	$76.00
	PLB08K	Double Row Pendant Control Enclosure, IP65	453x108x65mm		8	$92.00
	PLB10K		547x108x65mm	12-24mm Ø	10	$96.00
	PLB12K		601x108x65mm		12	$104.00
	PLB14K		655x108x65mm		14	$110.00

Industrial Buzzers

	Cat Ref.	Description	Details(s)	Cable Entry	Positions	Trade Price
	G75230AC				230VAC	$87.00
	G7524AC	Crane Claxon (Siren) 75mm Ø	IP30	88dB	24VAC	$87.00
	G7524DC				24VDC	$87.00
	G10024AC	Crane Claxon (Siren), Double Insulated 100mm Ø	IP65	95dB	24VAC	$126.00
	G100230AC				230VAC	$126.00
	G11710009	Claxon Mounting Base	G75	76.5mm Ø x 56mm		$18.00
	G11710010		G100	95.5mm Ø x 56mm		$21.00

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'TLP' Range - Tail Lift Control, IP65

|	Cat Ref.	Description	Push Button Operators	Contacts	Trade Price
	TLP1EPP		40mm E-Stop Push-Pull	1NC	$41.00
	TLP1VPP	TLP-Light Tail Lift Control	40mm E-Stop Push-Pull With Indication	1NC	$57.00
	TLP1ESR		40mm E-Stop Twist-To-Release	1NC	$41.00
	TLP1BAL		40mm Impulse Alarm Push Button	1NO	$41.00
	TLP2		Up PB Down PB	1NO 1NO	$62.00
	TLP3A	TLP Tail Lift Control 2 Direction Mechanically Interlocked	Up PB Common PB Down PB	1NO 1NO 1NO	$71.00
	TLP3B		30mm E-Stop Twist-To-Release Up PB Down PB	1NC 1NO 1NO	$78.00
	TLP3C		2 Pos Key Sw Up PB Down PB	1NO 1NO 1NO	$115.00
	TLP4A	TLP Tail Lift Control 2 Direction Mechanically Interlocked	30mm E-Stop TTR Up PB Common PB Down PB	1NC 1NO 1NO 1NO	$113.00
	TLP4B		2 Pos Key Sw 30mm E-Stop TTR Up PB Down PB	1NO 1NC 1NO 1NO	$132.00
	TLP4C	TLP Tail Lift Control 4 Direction Mechanically Interlocked	Up PB Down PB Right PB Left PB	1NO 1NO 1NO 1NO	$103.00
	TLP4D	TLP Tail Lift Control 4 Direction Mechanically Interlocked	Up PB Down PB 2 Pos Selector 30mm E-Stop TTR	1NO 1NO 1NO 1NC	$121.00
	Note:	TTR = Twist-To-Release			

IRT Cronista® 3.6 from Grayess

IRT Cronista® is a unique tool for organization of infrared images, their evaluation and generation of significant reports. All functions needed for image management, analysis and report generation are combined in one piece of software.

Thermographic Organizer Analyzer Reporter

¤ Fast and comprehensive high quality reports of your daily work with one mouse click
¤ Customized layout templates to match your needs
¤ Clearly structured and easy-to-use user interface
¤ Wide range of high-quality and powerful analysis tools

IRT Cronista® 3.6

Description	Trade Price
• Create fast and comprehensive high quality reports of your daily work with just one mouse click • Easily organize and manage your files in folder structure in the familiar way of Windows Explorer. • Customizable user interface • Easy image analysis with multi points and profile lines - preview infrared and corresponding visual image, define temperature range settings and analyze infrared image with points and profiles	**Single User** **$209.00**

IRT Pro Cronista®

Description	Trade Price
• PRO version of IRT Cronista with a another great functionality • Get out the best of your images by using IRT Cronista's "Contrast Enhancement". It gives you the possibility to choose between 4 setting modes for your colour palette • No contrast enhancement, histogram equalization, auto plateau equalization, manual plateu equalization • Includes additional advanced analysis tools	**Single User** **$413.00**

IRT Analyzer® 6.0

Description	Trade Price
• Professional thermographic analysis and reporting tool for reasearchers • Comprehensive and easy to use • Accurate detailed analysis for professional thermographic engineers, including sequence analysis; • Quickly made eye-catching reports in Microsoft Word; • Integrated communication for real-time image acquisition, analysis and process control.	**$P.O.A**

IRT Stitch® 2.0

Description	Trade Price
• Thermographic Image Builder - Examine and analyze high or wide objects. • Create a large size infrared image mosaic, showing the whole object, by combining multiple infrared images. • Improve the resolution of your camera. • Match remotely sensed images of the same area taken after a certain period of time. • With IRT Stitch® it is easy to accurately diagnose thermal problems in large target areas and to communicate important details, in order to facilitate repairs.	**Single User** **$209.00**

IRT KilnMonitor® 2.06

Description	Trade Price
• IRT KilnMonitor® is the full featured computer system that allows you to monitor, process and trace data from several kilns at once. • Scanners control module for real-time temperature acquisition • Input/output control module • Kiln visualization module (2D and 3D) • Thermographic analysis module • Historical storage module	**$P.O.A**

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Honeywell
Manning Systems, Inc.

Refrigerant & Ammonia Gas Detection

¤ Refrigerant and ammonia sensors
¤ Standalone or networked (optional)
¤ 4-20mA signal output

Air Scan Infra-Red Sensor

Catalogue Ref No	Description	Gas Type	Range	Enclosure Nema Size	Trade Price
IR-F9-CO2-1%-N1		CO2	0/10000ppm		$2,599.00
IR-F9-R134A-0/3000-N		R134A			$2,799.00
IR-F9-R22-0/3000-N1		R22		Nema 1	$2,799.00
IR-F9-R404A-0/3000-N		R404A			$2,799.00
IR-F9-R410A-0/3000-N		R410A			$2,799.00
IR-F9-R407F-0/3000-A	Air Scan Infra-Red Sensor		0/3000ppm	Nema 1 ATMOS Superheat	$3,908.00
IR-F9-R407F-0/3000-AS		R407F		ATMOS Superheat Stainless Steel	$4,518.00
IR-F9-R407F-0/3000-N				Nema 1	$2,799.00
IR-F9-R507A-0/3000-N		R507A			$2,799.00
IR-F9-R407F-0/3000NS		R407A		Stainless Steel	$3,346.00
EC-F9-NH3-0/1000	Ammonia Sensor	NH3	1/1000ppm	Nema 1	$2,599.00
EC-F9-NH3-0/1000-LCD	Ammonia Sensor + LCD				$2,799.00
EC-FX-CA	Calibration Adaptor	-	-		$246.00
eZsense	Combustible gas leak pen detector	Detects Natural Gas, Butane, Propane, LPG and LNG	0 ~ 10,000 ppm		$123.00

Honeywell-Manning AirScan™ IRF9 Sensor/Transmitter

The industrial refrigeration industry is changing rapidly. The manufacture of R-22 and other HCFCs are being phased out, and manufacturers of cooling systems are introducing new equipment that runs on 407a, 422d, 410a, NH3 and CO2. Honeywell Analytics Infrared monitoring solutions are designed to help your plant operate more efficiently and cost effectively. Honywells diffusion sensing technology cuts downtime and the cost of expensive refrigerant replacement.

The Manning EC-F9-NH3 with SensorCheck™

The Manning EC-F9-NH3 sensor consists of a pair of polarized electrodes isolated from the ambient air by a gas permeable membrane. As ammonia diffuses into the sensor, a redox reaction occurs, generating a current linearly proportional to ammonia gas concentration. Unlike many other ammonia sensors, this gas diffusion detector exhibits excellent zero and calibration stability over long periods of time.

EC cells often last 3-4 years in the refrigerated environments of food processing & storage warehouses. This sensor can provide direct input into PLC's and computer control systems that accept a linear 4/20 mA signal either directly from the sensor or from any Manning mulitchannel stand alone alarm consoles with relay or analog output.

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BMS - Building Management System

- Innotech is a complete BMS system that can also be used for standalone HVAC controls.
- For new & retrofit applications, enquire with Eurotec's HVAC team for complete, engineered specifications and system pricing.

INNOTECH CONTROL SYSTEMS NETWORK DIAGRAM

Communications & Control Modules

Catalogue Ref No	Description	Description	Trade Price
CONVUSB	USB Interface Module	Single Channel USB to RS485 Converter	$521.00
IG01	Gateway Module	SSG	$1,282.00
IG02		Dynalite	$1,922.00
IG03		BACnet	$2,601.00

Maxim Programmable Standalone Controllers

MAX1LD	Maxim 6UI 6DO 4AO Logging And Display		$1,871.00

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Maxim/Omni Programmable Network Controllers

Catalogue Ref No	Description	Description	Trade Price
VM01	VAV Max		$753.00
MM01	Mini Max Controller	Controller Only	$916.00
UM01	Micro Max Controller		$644.00
MAX2LD	Network Maxim Logging & Display		$2,108.00
MAX10NLD	Maxim 1010, 10 U/I, 10 A/O, No Ethernet, With Display		$2,416.00
MAX3NLD	Maxim III Display Only		$3,373.00
OMC14D	OMNI 14 Point with Display		$2,283.00
OMC20D	OMNI 20 Point with Display		$3,087.00
OMC40D	OMNI 40 Point with Display		$3,996.00

MAXIM Controllers

The Maxim Controllers are programmable digital controllers, that come with a range of different inputs and outputs for each model. Some have real time clocks on board and some rely on being part of a system to get their time. Give us a call for the full technical spec sheets or visit www.innotech.com.au.

Talk to our HVAC team and we will engineer and write the software for the controller and put a package together using our broad range of peripheral equipment to give you a complete solution. We have programmed controllers for a wide range of applications including laboratories, kumara shed ventilation, cool stores, air-conditioning in shops, homes, rest homes, pools and the list goes on. Alternatively download the free Maxim Bundle off the website, purchase a USB converter and program it yourself, we are happy to provide training, check your work and make some suggestions.

MAXIM III

The Innotech Maxim III Controller is a state of the art digital processing system that has the capability of controlling various types of industrial, commercial and domestic systems.

The Maxim III Controller can operate as a standalone device, using its own universal inputs, analogue & digital outputs to receive information and control external equipment, or as part of a network of Innotech devices.

Maxim Software

A bundle of configuration, monitoring and debugging tools for Innotech's Maxim series DDC controllers. **Free download** - www.innotech.com.au

Local support and training is available from Eurotec.

The Maxim Software bundle consists of : MAXCon, MAX2 Simulator, MAX3 Simulator, MiniMAX Simulator, MicroMAX Simulator, VAVMax Simulator, SSG Simulator, Maxim 1010 Simulator, MAXTract, MAXMon, iComm

The new benchmark for native BACnet BEMS has arrived!

INNOTECH
omni·
Building & Energy Management System (BEMS)

12:10 pm 05/09/2015
Omni C20 BEMS
AC 1 Temperature
Setpoint   22.50°C

INNOTECH OMNI - The Innotech OMNI generation of Native BACnet BEMS controllers are state of the art digital processing systems suitable for various types of control applications typically found in building management and process control.

Any point. Input or Output. You Decide.

Programmable Points (UI/O)

OUTPUT | INPUT | INPUT | OUTPUT | INPUT | INPUT | OUTPUT | INPUT | INPUT | OUTPUT

24V IN   1   2   3   4   5   6   7   8   9   10   COMMS

COMM 1
COMM 2

omni· C20
INNOTECH

24V OUT   ISS   11   12   13   14   15   16   17   18   19   20

INPUT | INPUT | OUTPUT | OUTPUT | INPUT | INPUT | OUTPUT | INPUT | OUTPUT | OUTPUT
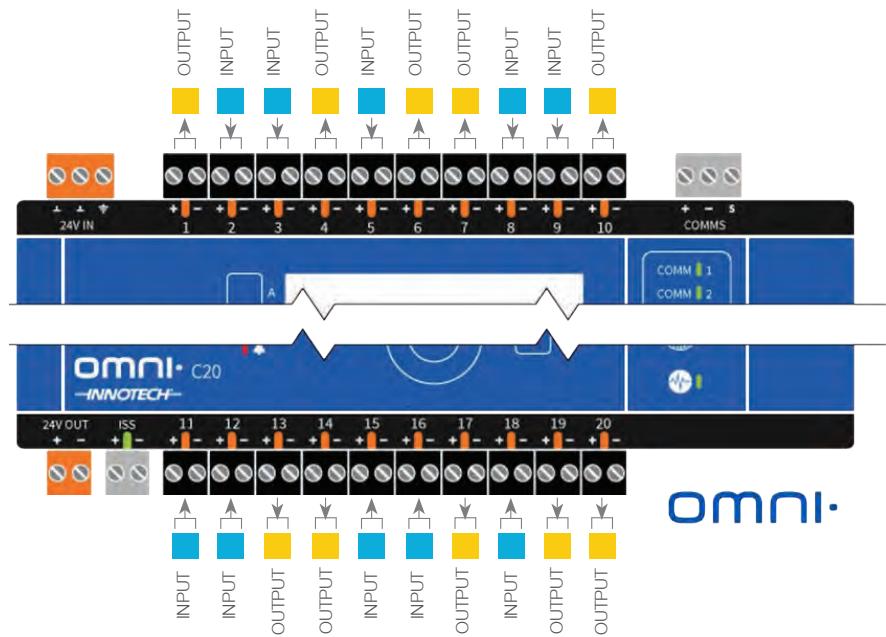
omni·

OMNI BEMS controllers are ideal for HVAC, Building and Energy Management, automation as well as process control.

Typical applications include:
- Energy management and analysis
- Building management and control
- Heating, ventilation, air conditioning and refrigeration
- Monitoring and data logging
- Lighting control
- Various OEM applications

A Current Loop Input	Digital Input (Contact)	Duty Cycle Output	**A** Pulse Output
A Current Loop Ouput	Digital Input (Voltage)	Pulse Input (contact)	**Ω** Sensor Input
Current/Voltage Input	Digital Output	Pulse Input (voltage)	**V** Voltage Input

V Voltage Output

Programmable Control Stations For Maxim Controllers

	Catalogue Ref No	Description	Description	Trade Price
	ICS01	Programmable Control Station For Maxim MM01, Max II and Max III	Digital Control Input	**$468.00**
	MP01	Mini Port	HMI For Maxim II Network	**$780.00**

InnTOUCH Smart Sensors

	Catalogue Ref No	Description	Integrated Thermistor	Universal Inputs	Real Time Clock	Trade Price
	ISS01		✓	-	-	**$234.00**
	ISS02	InnTOUCH Smart Sensor	✓	-	✓	**$294.00**
	ISS03		✓	✓	-	**$294.00**
	ISS04		✓	✓	✓	**$377.00**

Control Modules for InnTOUCH

	Catalogue Ref No	Description	Description	Trade Price
	VM01C	VAV Max		**$749.00**
	MM01C	Mini Max Controller	Controller + InnTouch Communications	**$906.00**
	UM01C	Micro Max Controller		**$613.00**

InnTOUCH

innTOUCH is a Smart Sensor solution for standalone applications or complete networked BMS solutions. The flexibility of innTOUCH ensures this Smart Sensor is suited to a wide range of applications including:

- ¤ Hotel Room Air-Conditioning
- ¤ Commercial Air-Conditioning
- ¤ High End Residential Air-Conditioning
- ¤ VAV Zone Control
- ¤ Custom configurations

The innTOUCH Smart Sensor used in conjunction with the powerful MAXIM Series of controllers enhances the MAXIM capabilities, allowing for custom configurations to accommodate individual client needs, including energy management and CO_2 monitoring.

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InnSIGHT Supervisor Web Server

Catalogue Ref No	Description	Trade Price
IWS01	InnSIGHT interface module & software	$2,625.00

Enhance your existing network with the latest web-server capabilities

With the simple and easy to use web interface of innSIGHT, personnel without a technical background can easily monitor and control their BMS (Building Management System) from any location that has access to innSIGHT.

Offering compatibility with Innotech's Maxim and Genesis controllers from 2001 (V4.20) onwards, innSIGHT is a great option to enhance your existing network with the latest web-server capabilities.

innSIGHT is a Supervisor Web Server that allows quick and easy access to view and modify variables and schedules from all Maxim and Genesis series controllers that are connected to your Innotech RS485 network. innSIGHT uses Microsoft Silverlight® technology in an embedded web server, allowing 5 concurrent connections via your standard Internet Explorer® version 8 (or above) web browser on your local computer.

Main Product Features

¤ Support of up to 128 Innotech devices
¤ Adjustable time-schedules and variables on all Innotech devices
¤ Visual indication of "Device Status"
¤ User Access Levels and adjustable passwords
¤ On-line help
¤ Auto detection and population of device data
¤ Real-time trend monitoring
¤ Embedded Web Server using Microsoft Silverlight® technology

New Features

¤ Enhanced Controller support (V4.20 onwards)
¤ Increased connection monitoring
¤ New zoom and pan control
¤ Visual indication of all devices, and whether they are equipped with alarm monitoring or time-schedules
¤ Alarm indication with activation & reset times
¤ Email notification of active alarms
¤ Real-time trend monitoring
¤ Log data extraction & graphing, with export to CSV capability
¤ Printing of trending and log data
¤ Increased performance and data capability

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ATOM Data Acquisition & Billing Management Software

	Catalogue Ref No	Description	Trade Price
	ATOM	ATOM Data Acquisition & Billing Management Software	**POA**

ATOM - **A**cquisition & **T**otal **O**ptimisation **M**anagement

Innotech® ATOM is a comprehensive Data Acquisition, Billing & Optimisation Management Tool. ATOM enables you to analyse historic data, generate reports and billing information while helping you to analyse and monitor the performance of your building and environmental impact. ATOM can be integrated into any new or existing buildings using your current infrastructure. ATOM can be configured to acquire data from supported SQL Server databases and generate billing & reporting information using a Tenant/Services database that can be customised to suit your application. ATOM can be enabled as either a standalone solution or as a multiuser web based solution with support for up to 5 concurrent users via Innotech eServer.

Applications

- Report on various building services: Electrical, Water, Gas, Hours Run, for HVAC Equipment, Energy and Carbon emissions (CO_2-e)

- Generate reports and bill Tenants for various building services; between specific times and dates, including usage and activity reports, also activity statements for hours run

- Monitor all Primary Metres, and analyse your complete environmental impact and totalisation of resources

- View and identify inefficiencies in your system to reduce costs and lessen your environmental impact

- People counting
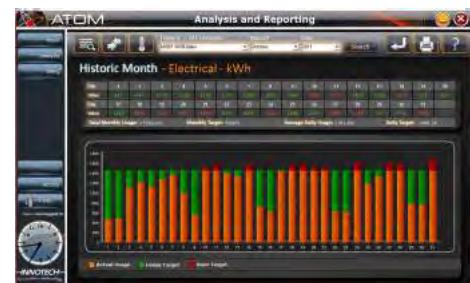
Features
- Dynamic Graphical User Interface
- Real time monitoring of system data
- Comprehensive data analysis suite with forecasting capabilities
- Set Monthly Targets for each Tenant/Service
- Set tariffs, administration costs, tax rates & specific Tenant/Service data
- Coloured indication when forecasts exceed the set targets
- Full Reporting and Billing capabilities.

Innotech's premier products are used in an indiscriminate range of applications and industries. Clients include; Sporting Venues, Manufacturing, Pharmaceuticals, Hotels, Commercial Buildings, Residential Apartments, Telecommunications, Government, Mining, Research & Medical, Education, Farming and Museums.

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Communications & Control Modules

	Catalogue Ref No	Description	Detail	Trade Price
	WXT532-C1	Vaisala Micro Weather Station	Wind Speed & Direction, Humidity, Liquid precipitation, Barometric Pressure and Temperature	$ 6,208.00
	WXT536-C1			$8,370.00
	WSP150	Vaisala Weather Station - Surge Protection		$1,093.00
	IG04	Gateway Module	Vaisala BACnet (Weather Station)	$2,416.00

IG04 BACnet Gateway for Vaisala WXT53 Weather Transmitter

The IG04 BACnet Gateway provides seamless integration with the WXT53 Weather Transmitter via automated creation of all BACnet Objects. No mapping or configuration tools are required to program the IG04 BACnet Gateway.

The IG04 BACnet Gateway interrogates the WXT53 Weather Transmitter and stores the current values for all NMEA data points. This data is updated and transmitted regularly as predefined BACnet Objects available as BACnet/IP or BACnet MS/TP values.

Once the Vaisala transmitter is configured and connected to the IG04, they will commence communicating. The weather data can then be viewed directly from the embedded weather page on the IG04. The BACnet Objects are available for integration into your BMS project.

Weather Monitoring
Has never been so easy.

The IG04 BACnet Gateway provides seamless integration with the WXT520 Weather Transmitter via automated creation of all BACnet Objects.

Wind Direction.
Rainfall.
Relative Humidity.
Wind Speed.
Air Temperature.
Barometric Pressure.

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Sensors

	Catalogue Ref No	Description	Detail	Trade Price
	SENP4		SS Temp With 3Mtr Lead	$52.00
	SEND2		Bead Detector 10kΩ	$41.00
	SEND3	NTC Sensor	Duct Detector 10kΩ	$114.00
	SENW21		Room Detector 10kΩ	$71.00
	SENW21A		Room Averaging Sensor	$89.00

Solid State Relay

	Catalogue Ref No	Description	Detail	Trade Price
	SSR/H5100	Solid State Relay	Solid State Relay 240VAC 40A Inc Heat Sink 3 - 32V Input	$139.00
	HSF	SSR Heat Sink Feet (4 required)	-	$4.00

Controllers

	Catalogue Ref No	Description	Operating Voltage	Outputs	Trade Price
	IWP2011	1 Heat 1 Cool	-	2 x 2A C/O Switched & 0-10V	$488.00
	IWP2022	2 Heat 2 Cool (Similar to RTR7603/230*)	-	4 x 2A C/O Switched & 0-10V	$699.00
	IWP4011	1 Heat 1 Cool	24VAC	2 x 2A C/O Switched & 0-10V	$585.00
	IWP4022	2 Heat 2 Cool (Similar to RTR7603/24*)	24VAC	4 x 2A C/O Switched & 0-10V	$699.00
	IMT5022	2 Heat 2 Cool Relays	24/230 VAC	Heat Valve, Temperature, Set Point & External Set Point, LED Relay Indication	$370.00
	*Note:	Electronic versions only.			
	MT01	MAXtime Controller		365 Day 4 Channel Time Clock c/w After Hours inputs	$867.00
	M3K01	Micro 3000 Controller 2 Heat 2 Cool 1 Speed Fan			$540.00
	M3K02	Micro 3000 Controller 2 Heat 2 Cool 1 Speed Fan, c/w 365 Day Batt Bkd T/C		0-10vdc Output	$609.00
	M3K03	Micro 3000 Controller 1 Heat 1 Cool 3 Speed Fan			$540.00

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Pressure Switches

- ¤ Compressed air switches
- ¤ Water pressure switches
- ¤ Electronic controls for pump automation & protection

Compressed Air Switches

	Catalogue Ref No	Description	Electrical	Setting Range	Differential	Trade Price
	PTA/12G	Compressed Air Switch	3 Phase 415VAC 16Amps	3-12Bar	1.5Bar	$75.00
	PTA/12RP	Compressed Air Switch + Regulator				$104.00

Water Pressure Switches IP44

	Catalogue Ref No	Description	Electrical	Setting Range	Differential	Trade Price
	PM/5G	Water Pressure Switch	1 Phase 415VAC 16Amps	1-5Bar	0.6/2.3 Bar	$65.00
	PT/12G		3 Phase 415VAC 16Amps	3-12Bar	1.5/5 Bar	$75.00
	VC100	'Loss Of Prime Switch'	1 Phase 230VAC 16Amps	1.5-4.5Hg	-	$69.00

Flow Controls

	Catalogue Ref No	Description	Electrical	Setting Range	IP Rating	Trade Price
	BRIO2000	Electronic Flow / Pressure Control Device	110-230VAC 12Amps	1-3.5Bar	IP65	$304.00
	FLUOMAC		110-230VAC 10Amps		IP54	$304.00

Pressure Conversion

Bar	PSI	kPA
1 bar = 14.5 psi / 100 kpa / 750mm hg / 29.53 in. of mercury	1 PSI = 6.895 kPA / 51.71mm Hg / 2.036 in. of mercury / 0.069 bar	1 kPA = 0.01 bar / 0.145 psi / 7.5188mm Hg / 0.2953 in. Of of mercury

JABLOTRON
CREATING ALARMS

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Wireless Thermostats & Chronostats

¤ Wireless system for long distance and inaccessible areas.
¤ Thermostats & chronostats (timer) combination

Wireless Chronostat

	Catalogue Ref No	Description	Trade Price
	TP-83TX	Wireless Chronostat (Use With AC-82 Receiver)	$94.50
	AC-82	1 Channel Receiver For TP-82TX & TP-83TX	$94.50

GSM Dialler

	Catalogue Ref No	Description	Trade Price
	GD-04	GSM Dialler 2 + Relay + 4 + Digital input 12VDC	$695.00

The **TP-83** is a wireless indoor thermostat with a **programmable weekly heating schedule and antifreeze protection.**

The device is capable of recognizing **warm-up persistence characteristics** (within 2 days) and will adjust the settings accordingly so that a high level of operational comfort is achieved. You need not find out how early the heating should start in order to get to a comfortable temperature at the desired time. The required timing is configured automatically. Temperature adjustment can be performed by simply turning the setting knob

CHRONOSTAT

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Klemsan Industrial Automation Solutions

- Time control
- Protection
- Alarm
- Analog Signal
- Switching
- Communication
- Energy Monitoring

Transducers - Signal Converters, DIN Rail Mount

	Catalogue Ref No	Description	Sensor Type	Input			Output		Supply	Trade Price
	ASCON 311	Configurable Signal Converter Casing Width 17.5mm	DC Current & Voltage (mV,V,mA)	0..60mV 0..100mV 0..250mV 0..500mV 0...1V 0...2V 0...205V 0...5V 0...10V 0...20V	-6...60mV -100...100mV -250...250mV -500...500mV -1...1V -2...2V -2.5...2.5V -5...5V -10...10V -20...20V	0...5mA 0...10mA 0...20mA -5...5mA -10...10mA -20...20mA 4...20mA 0...24mA 4...24mA 0...12mA	0...5V 5...0V 0..10V 10...0V -5...5V	0...20mA 20...0mA 4...20mA 20...4mA -20...20mA	11-30 V DC	$353.00
	ASCON 331	Configurable Thermocouple Converter Casing Width 17.5mm	Thermo-couple (J,K,E,R,S)	Configurable: J: -200°C...1200°C K: -200°C...1350°C E: -200°C...950°C R: -50°C...1750°C S: -50°C...1750°C					11-30 V DC	$371.00
	ASCON 321	Configurable PT100 Converter Casing Width 17.5mm	PT100 (2,3,4 wire)	-150°C...800°C Configurable			0...5V 5...0V 0..10V 10...0V -5...5V	0...20mA 20...0mA 4...20mA 20...4mA 20...20mA	11-30 V DC	$326.00
	ASCON 352	Signal Temperature Converter with RS485 Casing Width 17.5mm	Thermo-couple (J,K,E,R,S)	**Signal:** -30 signal combinations 4-20mA, 0-10V, etc **PT100:** -150°C...800°C Configurable **Thermocouple:** J: -200°C...1200°C K: -200°C...1350°C E: -200°C...950°C R: -50°C...1750°C S: -50°C...1750°C			RS485		11-30 V DC	$480.00
	CT3-AC-24	True RMS Current Transducer		0-1 AAC 0-2 AAC 0-3 AAC 0-4 AAC 0-5 AAC			0-2mA 4-20mA +-20mA 20-0mA 20-4mA	0-5V 0-10V +-5V +-10V 10-0V	10-36V	$366.00

Signal Isolators

	Catalogue Ref No	Description	Input	Output	Trade Price
	PISO-DC-1-420	Signal Isolator	1 Input 4-20mA	1 Output 4-20mA	$222.00
	PISO-DC-DUO-420			2 Outputs 4-20mA	$303.00

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Energy Meters - Panel/Din Mount

Catalogue Ref No	Description	Digital Input	Digital Output	Analog Output	Supply	Trade Price
KLEA 320P	**Energy Meter, 3 Phase** - 7 segment display - Panel Mount - LCD Screen - Real time clock - Password Protection - Current/Voltage Ratio 1-5000 - TT, TN, IT Networks - 2 Tariffs	Dry Contact 5000 vrms	2 Outputs Transistor 5-30 VDC 20Hz, 50ms	- 2 -	85-300 V AC	$568.00
KLEA 322P						$740.00
KLEA 220P			7 Outputs Transistor 5-30 VDC 20Hz, 50ms	-		$393.00
KLEA 110P				-		$328.00
ECRAS 100	**Energy Meter, 3 Phase** - 7 segment display - Panel Mount - Password Protection - Current/Voltage Ratio 1-5000 - TT, TN, IT Networks - 2 Tariffs				85-300 V AC	$244.00
POWYS 3111	**Energy Meter, 3 Phase** - 7 segment display - DIN Rail Mount - Current/Voltage Ratio 1-5000 - TT, TN, IT Networks					$545.00
POWYS 3121	**Energy Meter, 3 Phase** - LCD Screen - DIN Rail Mount - Current/Voltage Ratio 1-5000 - TT, TN, IT Networks					$617.00

Miscellaneous

Catalogue Ref No	Description	Auxillary Contacts	Supply Voltage	Functions	Trade Price
KPR-SCE-24VAC/DC-1C	Relay Interface & Base Casing Width 6.5mm	1C/O (SPDT) 24VDC 6A/250V AC 6A/30V DC	24V AC/DC	-	$26.00
T1-K	Multifunction Timer Casing Width 17.5mm (Only T1-K has trigger control input)	Max ratings AC (for NO side) 1 C/O (SPDT) 5A/250V	24-300 V DC 24-300 V AC	- On delay - Off delay - On-Off delay - On Flasher - Off Flasher -On delay with control	$53.00
T1-M5					$53.00
G1D-SA	Voltage Monitoring Relay Casing Width 17.5mm	Max ratings AC (for NO side) 1 C/O (SPDT) 10A/250V	380-480VAC +-25 Input Voltage Range: 50-60Hz	- Phase Failure - Phase Sequence 3Ø without neutral - Adjustable Unbalanced Protection	$67.00
RAPIDUS 231R-E	- Measuring system: 3Ø - LCD Screen: Available - Real time clock: Available Password protection: Available	- Current/Voltage transformer ratio: 1-5000 - Networks: TT,TN.IT - Step Configurations: Manually assign, predefined.			$786.00
ETOR-4	Ethernet Gateway (TCP/IP - RS485) Casing Width 17.5mm		24VAC/DC		$771.00

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DIN Rail Mount Terminals - Screw Type

Catalogue Ref No	Description	Size	Conductor Cross Section Solid & Stranded	2 Conductors	Insulation Stripping Length	Torque	Trade Price
AVK 2,5 GREY	DIN Rail Terminal 2.5mm Screw Type	2.5mm	0,2 - 4mm²	0,5 - 1,5mm²	9-10mm	0,4 - 0,6Nm	$1.50
AVK 2,5 BLUE							$1.50
AVK 2,5 GREEN							$1.50
AVK 2,5 YELLOW				2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve (min-max.)			$1.50
AVK 2,5 RED							$1.50
AVK 2,5 BLACK							$1.50
AVK 2,5 WHITE							$1.50
AVK 2,5 ORANGE							$1.50
AVK 2,5 BROWN							$1.50
AVK 4 GREY		4mm	0,2 - 6mm²	0,5 - 2,5mm²	9-10mm	0,5 - 0,8Nm	$1.60
AVK 6 GREY	Screw Type DIN Rail Terminal	6mm	0,2 - 10mm²	0,5 - 4mm² " "	10-12mm	0,8 - 1,2Nm	$2.10
AVK 6 GREEN							$2.10
AVK 6 RED							$2.10
AVK 6 WHITE							$2.10
AVK 6 BLUE							$2.10
AVK 6 BLACK							$2.10
AVK 10 GREY		10mm	0,5 - 16mm²	0,5 - 6mm² " "		1,2 - 1,8Nm	$2.80
AVK 16 RD GREY		16mm	2,5 - 25mm², 4-25mm²	1,5 - 10mm² " "	12-14mm	1,2 - 2,0Nm	$4.80
AVK 25 RD GREY		25mm	1,5 - 35mm²			2,0 - 3,0Nm	$8.90
AVK 35 RD GREY		35mm	1,5 - 50mm²	1,5 - 16mm² " "	16-18mm	2,5 - 3,5Nm	$9.80
AVK 2.5-4TK	DIN Rail Terminal Earth Screw Type Green/Yellow	2.5-4mm	0,2 - 0.6mm²	0,5 - 2,5mm² " "	9-10mm	0,5 - 0,8Nm	$5.10
AVK 6TK		6mm	0,2 - 10mm²	0,5 - 4mm² " "	10-12mm	0,8 - 1,2Nm	$5.80
AVK 10TK		10mm	0,5 - 16mm²	0,5 - 6mm² " "		1,2 - 1,8Nm	$6.40
AVK 16T RD		16mm	1,5 - 25mm²	0,75 - 10mm² " "	12-14mm	1,2 - 2,0Nm	$17.20
PIK 2,5N GREY	DIN Rail Terminal	2.5mm	0,2 - 4mm²	0,5-1,5mm² 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve (min-max.)	9-10mm	0,4 - 0,6Nm	$3.50

DIN Rail Mount Terminals - Spring Clamp Type

Catalogue Ref No	Description	Size	Connection Data (min - max.)			Trade Price
			Conductor Cross Section Solid & Stranded	2 Conductors	Insulation Stripping Length	
PYK 2,5 GREY	DIN rail terminal Spring clamp type	2.5mm	$0{,}34 - 4mm^2$, $0{,}34$-$2{,}5mm^2$	$0{,}5mm^2$ " "		$1.60
PYK 4 GREY	DIN rail terminal Spring clamp type	4mm	$0{,}34 - 6mm^2$, $0{,}25$-$4mm^2$	$1{,}0mm^2$ " "	9-10mm	$1.70
PYK 6 GREY	DIN rail terminal Spring clamp type	6mm	$0{,}5 - 10mm^2$, $0{,}5$-$6mm^2$	$1{,}5mm^2$ " "	11-13mm	$3.90
PYK 10 GREY	DIN Rail Terminal Spring Clamp Type	10mm	$0{,}5 - 16mm^2$ $0{,}5 - 10mm^2$	$0{,}5$-$1{,}5mm^2$ 2 conductors with same cross section, stranded, TWIN ferrules with plastic sleeve (min-max.)	13- 15mm	$5.10
PYK 2,5 T	DIN Rail Terminal Earth Spring Clamp Type Green/Yellow	2.5mm	$0{,}34 - 4mm^2$ $0{,}34 - 2{,}5mm^2$	$0{,}5mm^2$ " "	9- 10mm	$5.10
PYK 4T		4mm	$0{,}34 - 6mm^2$ $0{,}25 - 4mm^2$	$1 mm^2$ " "		$5.80
PYK 6T		6mm	$0{,}5 - 10mm^2$ $0{,}5 - 6mm^2$	$1{,}5mm^2$ " "	11-13mm	$7.80
PYK 10T		10mm	$0{,}5 - 16mm^2$ $0{,}5 - 10mm^2$	$4 mm^2$ " "	13-15mm	$11.20
PYK 2,5-2F GREY	DIN Rail Terminal Double Deck Spring Clamp Type Grey	2.5mm	$0{,}34 - 4mm^2$ $0{,}34 - 2{,}5mm^2$	$0{,}5mm^2$ " "	9- 10mm	$6.10
PYK 2,5-3F GREY	DIN Rail Terminal Tripple Deck Spring Clamp Type Grey	2.5mm				$8.10

Easy mounting of PYK Series Terminals

Solid/stranded cables (with ferrules) are connected to the terminal just by pushing in, without the need to use a screwdriver. The patented design of its spring provides fast and safe connection in heavily vibrating environments.

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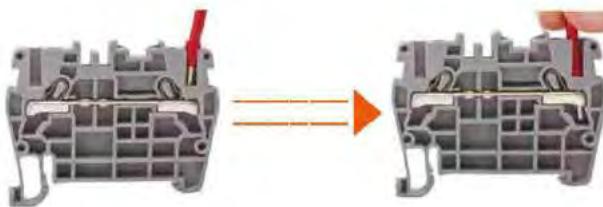
Accessories for DIN Rail Mount Terminals Continued

	Catalogue Ref No	Description	Size	Trade Price
	NPP/AVK 2,5-10 GREY	DIN Rail Terminal, End plate, AVK, Grey	2.5mm	$0.80
	NPP/AVK 16 GREY		16mm	$1.20
	NPP/AVK 25 RD GREY		25mm	$1.60
	APP/AVK 35-35RD GREY		35mm	$3.20
	NPP/PYK 2,5 GREY	DIN Rail Terminal, End plate, PYK, Grey	2.5mm	$0.70
	NPP/PYK 4 GREY		4mm	$0.80
	NPP/PYK 6 GREY		6mm	$0.80
	NPP/PYK 10 GREY		10mm	$0.90
	NPP2/PIK 4N-PIK 2,5N GREY	DIN Rail Terminal, End plate, PIK, Grey		$2.30
	NPP/PYK 2,5-2F GREY	DIN Rail Terminal, End plate, PYK, Double Deck, Grey	2.5mm	$1.00
	NPP/PYK 2,5-3F GREY	DIN Rail Terminal, End plate, PYK, Tripple Deck, Grey		$1.10
	KD 3 GREY	DIN Rail End Stop - Single level terminals, Grey	2.5mm -10mm	$1.10
	KD 7 GREY	DIN Rail End Stop - Multi-level and Larger terminals, Grey	2.5mm (multi) 10mm-35mm (large)	$3.90

Terminal Accessories

	Catalogue Ref No	Description	Compatible with	Trade Price
	UK 2,5/10 - AVK 2,5	Cross Connecting Link 10-way Comes with Screws	AVK 2.5	$7.90
	UK 4/10 - AVK 4		AVK 4	$10.90
	UK 6/10 - AVK 6		AVK 6	$17.10
	UK 10/10 - AVK 10		AVK 10	$17.70
	UK 16/10 - AVK 16/AVK25		AVK 16 & 25	$17.70
	DY 5 (1-10)	Terminal Labels	1 - 10 (1 card 50 labels)	$5.00
	DY 5 (11-20)		11 - 20 (1 card 50 labels)	$5.00
	DY 5 (1-50)		1 - 50 (1 card 50 labels) — AVK 4 - AVK 16	$5.00
	DY 5 (51-100)		51-100 (1 card 50 labels)	$5.00

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Slotted Trunking 2m Lengths

Catalogue Ref No	Description	Dimensions w x h	Trade Price
KKC 1518		15x18	$17.00
KKC 1530		15x30	$19.00
KKC 2530		25x30	$16.00
KKC 2540		25x40	$18.00
KKC 2560		25x60	$27.00
KKC 4040		40x40	$22.00
KKC 4060		40x60	$30.00
KKC 4080		40x80	$43.00
KKC 6060	Trunking, Narrow Slotted, Grey	60x60	$40.00
KKC 6080		60x80	$48.00
KKC 8080		80x80	$63.00
KKC 1008		100x80	$81.00
KKC 1206		120x60	$85.00
KKC 6010		60x100	$53.00
KKC 8010		80x100	$64.00
KKC 1001		100x100	$77.00

Trunking Accessories

Catalogue Ref No	Description	Trade Price
KKT 4040	40 X 40 Wire Retainer	$6.00
KKT 4060	40 X 60 Wire Retainer	$6.00
KKT 6080	60 X 80 Wire Retainer	$8.00
KKB	Cable Clamp	$4.00
KKM	Cable Holder	$6.00

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Level Control & Flood Detection

- Level sensors
- Float switches
- Flow switches
- Magnetic level Indicators
- Flood detection
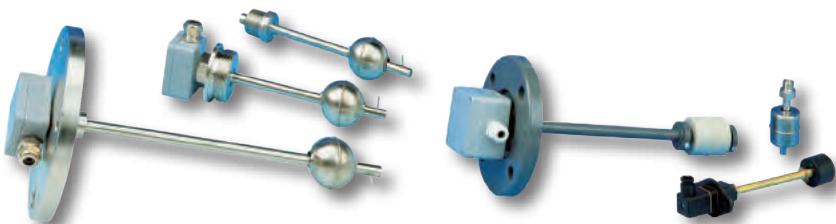
Level Control Units

	Catalogue Ref No	Description	Control Voltage	Switch Points	Output	Trade Price
	MUL-D 24VDC		24VDC	2		$1,202.00
	TP 5343A	Transmitter	8-35 VDC	1k Ohm to 100K Ohm	4-20mA	$480.00

Suspended Float Switches IP68 (c/w 10mtr flex)

	Catalogue Ref No	Description	Dimensions	Control Voltage	Current	Trade Price
	MS1-10 TPK		180mm x 100mm Ø			$586.00
	MS2-10 TPK	Pear Shaped Float	90mm x 60mm Ø	230VAC	2Amps	$459.00

The Company

Performance, quality and innovation are the success factors which have made Heinrich Kübler AG one of the world's leading suppliers of level measurement and control technology. The main product families include magnetic float switches, level sensors and bypass level indicators for the hygienic production of food and drink to high-pressure instruments on oil platforms in the North Sea.

1. Bypass Level Indicators
2. Top mounted Level Indicators
3. Level Sensors - Level Transmitters
4. Float Switches
5. Electrodes
6. Flow Controllers and Monitors
7. Side mounted Float Switches
8. Suspended Float Switches
9. Control Units and Transmitters
10. Magnetic Switches

Mac3 Level & Pump Control Systems

- ¤ Double chamber float switch, re-injection moulded, not glued
- ¤ Capacitive level switches (electronic, floatless)
- ¤ Hydraulic regulators & pressure switches for water
- ¤ Controls for electrodes, phase monitoring & duty sequencing
- ¤ Hydrocontroller, VF drives (water cooled & standard types)
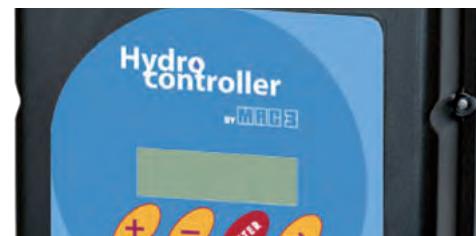
"Key" Series Float Switches For Commercial & Farm Applications

Catalogue Ref No	Description	Current Rating	Contacts	Cable Insulation	Cable Length	Trade Price
KPM0306KY0				PVC	3M	$77.00
KPM1006KY0					10M	$116.00
KGM0306KY0	Key Series Float Switch	10 Amps Res[1]	SPDT		3M	$97.00
KGM1006KY0				Neoprene	10M	$168.00
LZM1006GY0	Key Series Float Switch *400V*	10A[2]			10M	$183.00

[1]Inductive = 4Amps : [2]Inductive = 6Amps

"Mac3" Series Float Switches For Industrial Applications

Catalogue Ref No	Description	Current Rating	Contacts	Cable Insulation	Cable Length	Trade Price
MPM0306GB0				PVC	3M	$92.00
MPM1006GB0					10M	$128.00
MGM0306GB0	Mac3 Series Float Switch	10 Amps Res[1]	SPDT		3M	$116.00
MGM1006GB0				Neoprene	10M	$204.00
MGM1806GB0					18M	$268.00
NPM1006GB0	Mac3 Series Sw *PLC TYPE*	Gold Plated Contacts 1-100mA 5-24VDC	SPDT	PVC	10M	$192.00

[1]Inductive current rating = 4 Amps

"Small" Series Float Switches For General Purpose Applications

Catalogue Ref No	Description	Current Rating	Contacts	Cable Insulation	Cable Length	Trade Price
SGM0306SB0					3M	$111.00
SGM0506SB0	Small Series Float Switch	10A	SPDT	Neoprene	5M	$159.00
SGM1006SB0					10M	$194.00

[1]Inductive = 8Amps

"Mac5" Series Float Switches For Sewerage Applications

Catalogue Ref No	Description	Current Rating	Contacts	Cable Insulation	Cable Length	Trade Price
JGM1006GB0	Mac5 Switch	10A[1]	SPDT	Neoprene	10M	$299.00

[1]Inductive = 3Amps

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Float Switch Accessories

	Catalogue Ref No	Description	Trade Price
	COUNTERWEIGHT	Cable Counter Weight c/w Pivot Point Ring Suitable For KEY, MAC3 and SMALL Series Switches)	$14.00

INSTALLATION:

1. Insert the cable into the conical bottom of the counterweight. This should cause the plastic ring to become detached. Place the plastic ring (a rubber 'o-ring' or plastic cable tie can be substituted), on the cable where the pivot point is desired.

2. Push the counterweight onto the ring by rotating it and using slight pressure.

Float Switch Applications

Float switch being used for an emptying application, tethered to a discharge pipe. Uses wires: BLACK and BROWN. With these contacts the switch OPENS when down and CLOSES when up.
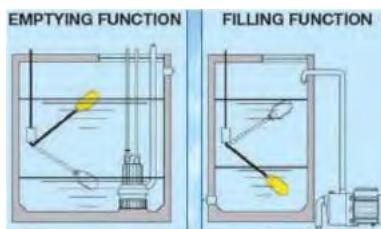
Float switch used for a filling application with a cable counter-weight. Uses wires: BLACK and BLUE. With these contacts the switch CLOSES when down & OPENS when up.

Reka2000 Series Capacitive Level Switches

Reka2000 level switches activate an electronic device once a liquid has reached a pre-set level. A capacity sensor in the plastic structure makes it suitable for a wide range of liquids.

	T00R200A00	Capacitive Level Switch With 0.5M Cable	230VAC	$135.00
	T00R200A03	Capacitive Level Switch With 3M Cable		$159.00
	T00R200A10	Capacitive Level Switch With 10M Cable		$191.00
	T00R200303	Capacitive Level Switch With 3M Cable	12-24VDC	$184.00
	T00R200310	Capacitive Level Switch With 10M Cable		$239.00

QuickStop Instant Closure Hydraulic Regulators

	QS0000BR25	"Adjustable High Speed Regulator Empty/Fill 1"" BSP"	$57.00
	Note:	Other sizes available on request.	

Magnetic Level Switch For Small Wells

	AGWPM10000	Magnetic Level Switch Empty/Fill c/w 10m PVC Cable	$123.00
	AGW0000000	Agma Magnetic level switch, empty/fill, Direct pump mount	$101.00

Agma 22 - Small Wells

	AG0NC4000	Level Regulator For Pump Connection 500mm Cable (Type B)	$106.00
	AG00000000	Level Regulator For Direct Pump Connection (Type A)	$102.00

Water Pressure Switches IP44

	VPSM030000	Water Pressure Switch IP44	1 Phase	1.5-6.0bar	$65.00
	VPST060000		3 Phase	4.0-10bar	$77.00

Level Controls

	Catalogue Ref No	Description	Adj Sensitivity	17.5mm Modules	Control Voltage	Trade Price
	EQ22000000	QNS Water Level Controller	5.6k Ohm		230VAC	$143.00
	EQ220R0000	QSR Adjustable Sensitivity Level Controller	0-100k Ohm	3M	230VAC	$166.00
	EQ024R0000				24VAC	$166.00
	EQ415R0000				415VAC	$183.00
	EC00CR0000				12/24VDC	$164.00
	ED22000000	DB Level Controller - Up To 7 Probes (Start, Stop & Alarms)		5M	230VAC	$352.00
	EZ08YH00Z0	Z8AS Level Controller Hi Sensitivity (68k ohm) Plug In - Includes Octal Base			230VAC	$143.00
	EZ08Y000Z0	Z8NS Level Controller Plug In + Octal Base				$143.00
	TSOND00000	Electrode Probe (Single)				$26.00
	TP00000000	Triple Electrode Holder 65mm Ø Mtg For 3 x 6mm Ø Probes				$70.00

Rotation/Duty Controller

	Catalogue Ref No	Description	Control Voltage	Trade Price
	TMK3000000	Sequence Controller 2 Pumps Alternating Standby	230VAC	$149.00
	TMK3002400		24VAC	$149.00

Phase Failure Relays

	Catalogue Ref No	Description	Detail	Base Housing	Control Voltage	Trade Price
	T400000000	Phase Failure Relay	1 Phase	Octal	230VAC	$168.00
	T500000000		3 Phase	11 Pin	415VAC	$185.00
	T510000000	Phase Failure Relay + Digital Display	3 Phase	DIN 2M		$492.00

EUROBOX M66 Control Boxes

	Catalogue Ref No	Description	Dimensions h x w x d	Format	17.5mm Modules	Trade Price
	EBOX04M66	DIN Modular Enclosure IP66	190x112x106mm	1R x 4M	4M	$70.00
	EBOX08M66		190x184x106mm	1R x 8M	8M	$78.00
	EBOX12M66		250x256x140mm	1R x 12M	12M	$142.00

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ChillGard® Refrigerant & Ammonia Gas Detection

¤ Photo acoustic I/R Detectors for most common refrigerants
¤ 4-20mA outputs and relay options

Chillgard Refrigerant Gas Detectors

Catalogue Ref No	Description	Output	Gas Type(s)	Trade Price
764971	Chillgard RT STR 4 Point	3 Relays & 4-20mA	R123, R22, R134A, R404A, R407C, R410A	$20,539.00
765861	Chillgard RT STR 8 Point			$23,629.00
227796			Ammonia	$23,940.00
766678	Chillgard M-100 with De-icer RH&T	4-20mA	R407C	$1,543.00
766680			R404A (422A, 422D, 507C)	$1,543.00
766681			R22	$1,543.00
768005		Modbus	R404A (422A, 422D, 507C)	$1,498.00
768004			R22	$1,498.00
767498	Chillgard M-100 Basic	4-20mA	R22	$1,337.00
767499			R404A (422A, 422D, R507C)	$1,337.00
767500			R134A (R407C, R410A, R427C)	$1,337.00
767502			R410A	$1,337.00
767977		Modbus	R134A (R407C, R410A, R427C)	$1,337.00
767999			R404A	$1,337.00
768000			R22	$1,298.00
803500	Cal Gas R134A in Nitrogen			$347.00
10064883	Chillgard Ammonia sensor low temp w/heater			$2,878.00
10066135	Spare part replacement sensor			$1,854.00
767207	Ultima XIR CO2 0-5% Sensor			$6,383.00

Prima X Gas Detectors

Catalogue Ref No	Description	Range	Gas Type(s)	Trade Price
10112435	Prima X P Ammonia Sensor	0 - 500ppm	Ammonia	$3,066.00
10112271	Prima X 1 O2 Sensor	0-25%	O2	$1,337.00
10112501	Prima X/P 02 Sensor			$2,046.00
10112518	Prima X-P Propane Sensor	2.1% 4-20mA	Propane	$2,434.00

Current Operated Switches & Transducers

- ¤ Current switches with fixed or adjustable setpoints
- ¤ Current transducers with 4-20mA output
- ¤ Solid or split core for new and retro-fit applications

Sentry 250 Series Current Switches - Solid State Switch (135V AC/DC)

	Catalogue Ref No	Description	Details	Setpoint Type	Setpoint Current	Trade Price
	225		-	Fixed	1Amp	$141.00
	250	Current Switch - Solid Core	Smart LED	Adj	1-150A	$205.00
	SC225	Current Switch - Split Core	-	Fixed	1.5Amp	$165.00
	SC250		Smart LED	Adj	1-150A	$249.00
	Note:	225 & SC225 = 19mm Ø 250 & SC250 = 21.5mm Ø				

Sentry 200 Series Current Transducers - 4-20mA Output

	Catalogue Ref No	Description	Details	Setpoint Type	Setpoint Current	Trade Price
	200-1		Solid Core 19mm Ø	Fixed	0-10 / 0-20 / 0-50A	$249.00
	200-2	Current Transducer - Loop Powered Solid Core		Adj	0-100 / 0-150 / 0-200A	$249.00
	SC200-1	Current Transducer - Loop Powered Split Core	Split Core 21.5mm Ø	Fixed	0-10 / 0-20 / 0-50A	$295.00
	SC200-2			Adj	0-100 / 0-150 / 0-200A	$295.00

Sentry HD100 Series Current Operated AC Switch - Adjustable Setpoint

	Catalogue Ref No	Description	Details	Setpoint Type	Setpoint Current	Trade Price
	HD100-NO	Adjustable Current Switch	240VAC 10Amps 15mm Ø	1NO	1-175A	$214.00
	HD100-NC			1NC		$214.00

Sentry 200 Series High Current Transducers - 4-20mA Output

	Catalogue Ref No	Description	Details	Setpoint Type	Setpoint Current	Trade Price
	200-3	High Current Transducer - Loop Powered Solid Core 24VDC	Solid Core 76mm Ø	Fixed	0-375 / 0-500 / 0-750A	$656.00
	200-4				0-1000/0-1333/0-2000A	$926.00
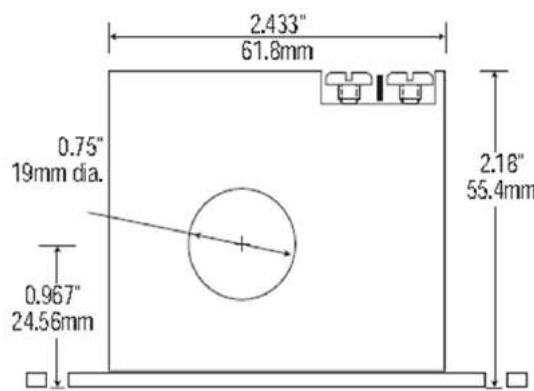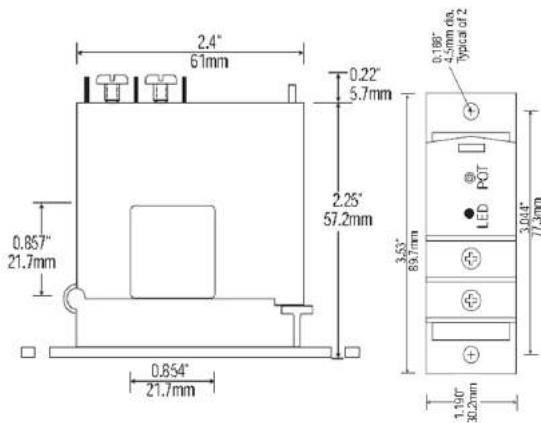
Dimensional drawings:
- 2.4" / 61mm
- 0.22" / 5.7mm
- 2.25" / 57.2mm
- 0.857" / 21.7mm
- 0.854" / 21.7mm
- 0.188" 4.5mm dia. Typical of 2
- LED POT
- 3.64" / 92.5mm
- 3.044" / 77.3mm
- 1.190" / 30.2mm
- 2.433" / 61.8mm
- 0.75" / 19mm dia.
- 2.18" / 55.4mm
- 0.967" / 24.56mm

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Non-contact Temperature Measurement

¤ Infrared Thermometers and Pyrometers - small, compact and industrial
¤ Infrared Cameras/Thermal Imagers - high resolution thermal images
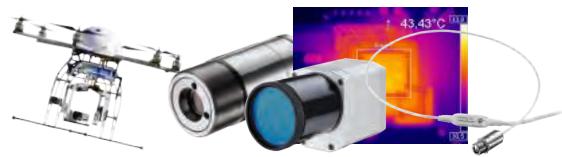
Compact Series CS, CX, and CT Pyrometers

	Model	Description	Temperature Range	Trade Price
	CS LT/CSmed LT	Ideal for temperature measurement in small and narrow environments.	-40 °C to 1,030 °C	$P.O.A
	CX LT	Robust housing especially suited for industrial applications	-30°C to 900°C	
	CX hs LT	Offers the measurement of smallest temperature differences of 0.025 K	-20°C to 150°C	
	CS Micro LT	Small size and temperature resistance up to 120°C make the mechanic integration of the measuring head especially cost-effective	-40°C to 1,030°C	$P.O.A
	CS Micro 3M	Ideal for temperature measurement of metallic surfaces and allows for measurements through glass.	50°C to 350°C	
	CS Micro 2W LT	Ideal measuring device in hot ambient temperatures.	-40°C to 1,030°C	
	CS Micro 2W hs LT	Suited for installation in limited or cramped spaces.	-20°C to 150°C	
	CS Micro 2W 2M	For temperature measurement of metals.	250°C to 800°C	
	CT LT/C Tex LT	High variability due to selectable analog outputs as well as several digital interfaces in the electronics box	-50°C to 975°C	$P.O.A
	CTfast LT	Ideal for quick measurements due to its extremely short response time of 6 ms		
	CThot LT	Measurement of high ambient temperatures	-40°C to 975°C	
	CT 1M/2M	High-temperature measurements of metal	485°C(1M) or 250°C (2M) to 2,200°C	
	CT 3M	Low-temperature measurements of metal	50°C to1,800°C	
	CT G5	Temperature measurement of glass	100°C to 1650°C	
	CT P3	Precise temperature measurement of thin plastic film	50°C to 400°C	
	CT P7	Temperature measurement of foils	0°C to 710°C	

High Performance CS and CT Laser Series Thermometers

	Model	Description	Temperature Range	Trade Price
	CS Laser LT	Allows for an exact marking of measurement spots even on smallest objects	-30°C to 1,000°C	$P.O.A
	CS Laser hs LT	Measuring of the slightest temperature differences from 0.025°C on, ideal for. continual surveillance of product homogeneities.	-20°C to 150°C	
	CS Laser 2M	Measurement of metallic surfaces	250°C to 1600°C	
	CS Laser G5HF	Temperature measurement of glass surfaces	200°C to 1650°C	
	CT Laser LT/LTF	Exact temperature measurement on smallest objects from 0,9 mm at a distance of 70 mm	-50°C to 975°C	$P.O.A
	CT Laser 05M	Measuring of molten metals	1000°C to 2000°C	
	CT Laser 1M/2M	Measuring of metals in high temperatures	250°C to 2,200°C	
	CT Laser 3M	Measuring of metals with low temperatures	50°C to 1,800°C	

High Performance CS and CT Laser Series Thermometers

Model	Description	Range	Price
CT XL 3M	Temperature measurement of laser applications	100°C to 1800°C	
CT Laser MT	Temperature measurement through flames	200°C to 1450°C	
CT Laser F2	Temperature measurement of CO flame gas	200°C to 1650°C	
CT Laser F6			
CT Laser G5	Measurement of glass temperatures	100°C to 1650°C	
CT Laser P7	Temperature measurement of plastic foils & glass surfaces	0°C to 710°C	$P.O.A

Video and Ratio Pyrometers

Model	Description	Range	Price
CS video 2M	Infrared thermometer for metals with adjustable focus, crosshair laser & video sighting.	250°C to 1600°C	
CT video 1M/2M	Video pyrometer with adjustable focus for high-temperature measurement of metals.		
CT video 3M	Video thermometer optris CTvideo 3M for metals.	50°C to 1800°C	
CT ratio 1M	Ratio pyrometer optris CTratio 1M for high-temperature measurement of metals.	700°C to 1800°C	$P.O.A

Infrared Cameras PI Series

Model	Description	Price
PI 160	• Thermal images in real time (120 Hz, 160x120 px) • Outstanding price-performance ratio • Industrial accessories	
PI 200/PI 230	• Thermal images in real time (128 Hz, 160x120 px) • Synchronic visual image recording (32 Hz, 640x489 px) • Low-light-level technology of visual camera	
PI 400/PI 450	• Thermal images with up to 80Hz • Very high thermal sensitivity with up to 40 mK • Smallest IR camera in its class • New: PI450 Measuring range up to 1500°C	
PI 640	• Ideal for industrial and R&D proccesses • Pin-sharp thermal images and IR videos • Optical resolution of 640 x 680px • New: measuring up to 1500°C	
PI 450/ 640 G7	• Line scan function for tempering processes • Thermal images of glass beads right up to large panes • Precise Temperature measurements of glass surfaces	
PI 1M	• High dynamic CMOS detector with up to 764 x 380 px resolution • 450°C to 1800°C without sub-ranges • Up to 1 kHz frame rate for fast processes	$P.O.A
PI 05M	• High dynamic CMOS detector with up to 764 x 480 px resolution • Wide measurement range • 900°C to 2000°C wihtout sub-ranges • Up to 1 kHz frame rate for fast processes • Extensive software package and SDK included	
PI Lightweight	• Ideal for quality inspections of solar firlds and thermographic inspections of buildings • Full radiometric IR inspection with 382 x 288 px • 380g two-piece design with minimized camera head weight	
PI NetBox	• PI NetBox is a miniature PC for the PI series of infrared cameras. It upgrades the oprtris PI IR camera series to stand-alone solutions or acts as USB to Ethernet adapter • Operating system: Windows 7 Professional • Dimensions: 113 x 57 x 47	

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optris infrared thermometers

USB Server Gigabit

Long-distance control of infrared cameras: Acting as a USB to Ethernet adapter, the USB Server Gigabit allows bridging distances significantly longer than 20 meters between the PC and a PI thermal imaging camera and the optris® CTvideo/ CSvideo video pyrometer series.

- Fully USB 2.0 compatible, data rates: 1.5 / 12 / 480 mbps, USB transfer mode: Isochronous
- Full TCP/IP support incl. routing and DNS
- Two independent USB ports
- Galvanic isolation 500 VRMS (network connection)
- Remotely configurable via Web Based Management
- Supply from PoE or external power supply

$P.O.A

Industrial Process Interface

Integration of thermal imaging cameras in automated processes

Our newly developed industrial process interface (PIF) permits automatic process monitoring, for the continuous in-operation control of the hardware of the PI infrared cameras with all cable connections and the free analysis software PI Connect. An innovation on the market in this monitoring process is the control of the external computer.

- PI hardware including all cable connections and PI Connect software are permanently observed during operation
- 3 analog/ alarm outputs, 2 analog inputs, 1 digital input, 3 alarm relays
- 500 V ACRMS isolation voltage between camera and process
- Separate fail-safe relay output

$P.O.A

Protective Housing - Cooling Jacket Advanced

The Cooling Jacket Advanced is the universal protection for Optris PI Series, CTlaser, CSlaser, CTvideo and CSvideo under harsh industrial environments.

STANDARD Cooling Jacket Advanced	IP65 Ambient Temperature Up to 315°C	Includes: • Housing • Chassis and focusing unit • Installation Instructions	$P.O.A
EXTENDED Cooling Jacket Advanced	Relative Humidity 10...95% Non condensing	Includes: • Housing • Chassis and focusing unit • Mounting Accessories for PI Netbox or USB Server Gigabit and Industrial PIF • installation instructions	$P.O.A

Outdoor Protective Housing

The universal protection housing (IP 66) has been developed for outdoor operation of the optris PI infrared camera series. Through a built-in air purge collar, the IR cameras can be deployed in dusty and humid conditions for a continuous temperature monitoring.

The possible inclusion of a USB Server Gigabit enables for an integration into process control systems over large distances via Ethernet

$P.O.A

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PIR Sensors, Timers, Meters, T'stats & Transformers

¤ PIR detectors, photo-electric (lux) switches & thermostats
¤ Analogue & digital timers, coin/token timers
¤ Coin timers
¤ Hours run counters & kWh meters
¤ Transformers & bell transformers

Indoor PIR Motion Sensors - Ceiling Mount

	Catalogue Ref No	Description		Sensor/ Cut Out	Time Delay	Sensor Range	Trade Price
	DICROMAT BASIC	1 Relay			35s - 20m		$101.00
	DICROMAT 1+ CR	1 Relay	Optional Remote Advanced Program	80/60mm Ø	1s - 10m		$135.00
	DICROMAT 2+ CR	2 Relays			1s-10m/10s-15m	360° x 7m Ø	$166.00
	DICROMAT SENSOR +	PIR Sensor Only +7m Cable			1s - 10m		$79.00
	DICROMAT MINI	1 Relay		65/54mm Ø	6s - 12m		$141.00
	DICROMAT MINI-2	2 Relays			6s-12m/10s-30m		$162.00
	DICROMAT MICRO	1 Relay		20/16mm	6s - 12m	360° x 4m Ø	$124.00
	CIRCUMAT MINI	1 Relay Surface Mount		120mm Ø	3s - 30m	360° x 7m Ø	$117.00
	CIRCUMAT PRO CR	1 Relay Surface Mount	Optional Remote		3s - 10m	360° x 30m Ø	$149.00
	CIRCUMAT PRO CR 12M			140mm	10s-10m	360° x 17m Ø	$194.00
	CIRCUMAT PRO DALI	Surface Mount	Output DALI		10s-30m	360° x 30m Ø	$268.00
	CIRUMAT PRO 1-10V		1-10V Output				$246.00
	CR Remote	"Remote Control For All ""CR"" Sensors"			-		$67.00

Indoor Motion Sensors

	Catalogue Ref No	Description	Sensor/ Cut Out	Time Delay	Sensor Range	Trade Price
	ORBIMAT	Wall Mount (Flush) PIR	80x80mm	6s - 12m	195° x 8m	$103.00
	ECOMAT	Microwave Sensor	116x78mm	3s - 30m	270° x 3 x 6m	$193.00
	ECOMAT MINI				360° x 2.5 x 10m	$164.00
	ECOMAT MINI 2N	Mircowave Sensor with output dimming to 20% when no occupancy is detected.	90x51mm	5s - 30m		$174.00

Outdoor PIR Motion Sensors

	Catalogue Ref No	Description	Time Delay	Sensor Range	IP Rating	TradePrice
	PROXIMAT	Wall Mount	10s - 10m	240° x 12m	IP45	$91.00
	MULTIMAT	Ceiling/Wall Mount	3s - 30m	200° x 12m	IP55	$88.00
	MULTIMAT BLACK					$88.00
	ISIMAT 200	Wall Mount	3s - 30m			$52.00

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	Catalogue Ref No	Description	Sensor Range	Trade Price
	SPOTMAT	Ceiling/Wall Mount Led Light/PIR Sensor, Surface Mount, Battery Powered **(3 x AAA Batteries Not Included)**	360° x 6m	**$25.00**

Analogue & Digital Timers, Thermostats & Chronostats

	Catalogue Ref No	Description	Time Range	Output	Operating Voltage	17.5mm Modules	Trade Price
	DATA LOG	Std Digital Time Switch - DIN Modular (MCB) Style	7Day 24Hour	1 Ch	230VAC	2M	$159.00
	DATA LOG2			2 Ch			$180.00
	DATA LOG 12V			1 Channel	12VAC/DC		$159.00
	DATA LOG 24V				24VAC/DC		$159.00
	ASTRO NOVA CITY	Astonomical Time Switch - DIN Modular (MCB) Style		2 channels	230VAC		$205.00
	DATA ANNUAL	Annual Time Switch					$364.00
	BT TIME CLOCK DONGLE	Bluetooth dongle for programming ASTRO and DATA LOG time clocks					$165.00
	UNO-QRD	Analogue Time Switch - DIN Modular (MCB) Style	24Hr	1NO	230VAC	1M	$111.00
	UNO-QRS		7D24H				$116.00
	DUO QRD		24Hr	1CO		2M	$111.00
	DUO QRS		7D24H				$116.00
	SUPRA QRD		24Hr			2.5M	$111.00
	SUPRA QRS		7D24H				$116.00
	WALLMOUNT BOX	Modular Timer Cover With Integral DIN Rail				2M	$14.00

	Catalogue Ref No	Description	Time Range	Output	Operating Voltage	Trade Price
	MINI T LOG	Digital Time Switch - Surface Or Panel Mount	7Day 24Hour	1CO	230VAC	$184.00
	MINI T QRD	Analogue Time Switch - Surface Or Panel Mount	24Hour			$105.00
	MINI T QRS		7Day 24Hour			$109.00
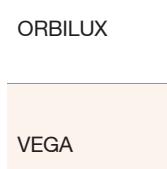
Thermostats & Chronostats

	Catalogue Ref No	Description	Trade Price
	MIRUS	Digital Chronostat 7D24H (1 x AA 1.5V battery op)	$180.00
	MIRUS BLK		$180.00
	ORUS	Digital Chronostat 7D24H (1 x AA 1.5V battery op) With Separate Probe Input (Use With NTC-NEO Room Sensor)	$233.00
	NTC-NEO	Separate Room Sensor/Probe For Orus Chronostats	$54.00
	CLIMA ML	Mechanical Room Thermostat	$45.00
	CLIMA MLI	Mechanical Room Thermostat + On/Off Switch	$61.00
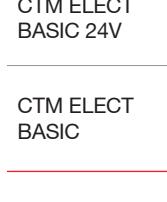
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Twilight (Lux) Switches

	Catalogue Ref No	Description	Detail		Trade Price
	ORBILUX	Twilight Switch IP55, Surface Mtg	5-200 Lux	IP55	**$80.00**
	VEGA	Twilight Switch IP54, Surface/Pole	5-300 Lux	IP54	**$75.00**

Coin Timers

	Catalogue Ref No	Description	Detail	Trade Price
	CTM ELECT BASIC 24V	Coin Timer Basic 24VAC		$649.00
	CTM ELECT BASIC	Coin Timer Basic 230VAC	Specify set up for 50c, $1, $2 coins or tokens	$649.00
	CTM ELECTRONIC	Coin Timer Electronic 230VAC With Pre-Warning Of Shut Down		$882.00
	TOKEN	Token For Coin Timers		$2.00

*AISI304 stainless steel versions, price on application.

CTM Electronic Basic

Electronic timer, coin or tokens operated, end of time warning pre-warning

Description

Electronic timer, operated by tokens or coins. It has a one-digit display that counts up to nine tokens or coins. Timing-end pre-warning one minute prior to actual time out via flashing display.

Technical specifications

Voltage Rating	230VAC. In damp locations, (eg; campsite showers etc), it is essential to use the 24VAC version.
Frequency Rating	45-60 Hz
Current Rating	10 (4) at 250VAC
Consumption	5 VA
Accuracy	± 0.2 %
Operating Temp	-20 °C to +55 °C
Max Timing	Max. 150 hours per token or coin
Min Timing	Min. 1 minute per token or coin
Protection type	IP 20 in accordance with EN 60529
Standby memory in case of power failure	One year
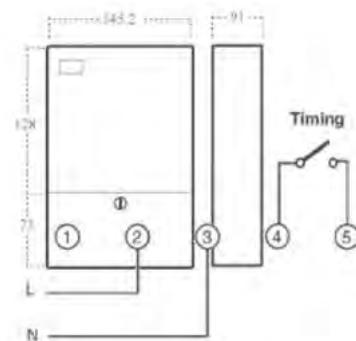
Timing

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Hours Run Counters

	Catalogue Ref No	Description	Detail	Operating Voltage	Trade Price
	CONTA MODULAR 230		DIN Modular 2 x 17.5mm	230VAC	**$87.00**
	CONTA 230			230VAC	**$62.00**
	CONTA 24	Hours Run Meter		24VAC	**$62.00**
	CONTA 110		Panel Mounting 55 x 55mm	110VAC	**$62.00**
	CONTA 400			400VAC	**$62.00**
	CONTA 12-80			12-80VDC	**$92.00**

Check (kWH) Meters

	Catalogue Ref No	Description	Detail	Operating Voltage	17.5mm Modules	Trade Price
	CONTAX 2511S0		Single Phase 25A		1M	**$146.00**
	CONTAX 3221SO		Single Phase 32A	230VAC 50-60Hz	2M	**$123.00**
	CONTAX 6521SO	kWH Meter	Single Phase 65A		2M	**$157.00**
	CONTAX D 6331 SO		Single Phase 10(63)A		3M	**$334.00**
	CONTAX 0643SO		Three Phase Up To 1000 / 5 CT's	3 x 230VAC (415VAC) 50-60Hz	4M	**$335.00**
	CONTAX D9073 SO		Three Phase 90A Integral CT's Direct Connect		7M	**$575.00**

Transformers

	Catalogue Ref No	Description	Detail	Operating Voltage	17.5mm Modules	Trade Price
	TRMC-15/24	DIN Modular Transformer	Control Transformer 15VA	230-24VAC	2M	**$87.00**
	TRMD-15/24		Bell Transformer 15VA	230-24/12VAC		**$87.00**

To this energy that has always led to change, we add a new proposal for resource use. The Intelligent energy.

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Relays

¤ Industrial plug-in relays
¤ Interface relays
¤ Timing relays, single or multifunction/multivoltage

Plug-In Relays With Test Buttons And LED's

Catalogue Ref No	Description	Similar Type(s)	Contact		Voltage	Trade Price
			Format	Rating		
R2N-2CO-230VAC	Plug-In Relay + Test PB & LED	MY2 55.32	DPDT (2P C/O)	12Amps	230VAC	**$22.00**
R2N-2CO-24VDC					24VDC	**$22.00**
R2N-2CO-12VDC	Plug-in Relay + LED, 8-Pin				12VDC	**$22.00**
R2N-2CO-24VAC	Plug-In Relay + Test PB & LED				24VAC	**$22.00**
R4N-4CO-230VAC	Plug-In Relay + Test PB & LED	MY4 55.34	4PDT (4P C/O)	6Amps	230VAC	**$25.00**
R4N-4CO-24VDC					24VDC	**$25.00**
R4N-4CO-24VAC	Plug-in Relay + LED, 14-Pin				24VAC	**$25.00**

Relay Bases

Catalogue Ref No	Description	Similar Type(s)		Trade Price
GZT2	R2N Relay Base DIN Rail Mtg	PYF-08A-N	-	**$17.00**
GZT4	R4N Relay Base DIN Rail Mtg	PYF-14A-N	-	**$19.00**

Relay Accessories

Catalogue Ref No	Description	Trade Price
M61R	Relay indicating module, Red , 24VAC/DC for GZT2/4	**$10.00**
M63R	Relay indicating module, Red 230VAC for GZT2/4	**$10.00**
ZGGZ4-1	Connection strip for GZT2/4 relay bases, 6 pile, Grey	**$4.00**
G4 1052	Retaining clip - wire type for GZT2 & GZT4	**$4.00**

Process Timers

Catalogue Ref No	Description	Contact		Control Voltage	Trade Price
		Format	Rating		
MT-TUA-17S-11	Multifunction/ Multivoltage Timer	1CO	10Amps	12...230V AC/DC	**$133.00**

Multifunction Process Timer Modes

E - On delay	R - Off delay with control contact S
Wu - Single shot leading edge voltage controlled	Ws - Single shot leading with control contact S
Bp - Flasher pause first	Wa - Single shot trailing edge with control contact S
T - Generating a 0.5s pulse after the timed delay (T)	

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Level & Float Switches

¤ Insulated nylon & polypropylene level & float switches
¤ Stainless steel level & float switches

Polypropylene/Nylon Level Switches

	Catalogue Ref No	Description	Fitting	Thread	Operating Temp (Max)	Contact	Trade Price
	MFS9-N2-2	Nylon Level Switch Horiz	Internal	"1/2" "NPT"	110°C	NO or NC	$55.00
	MFS10-N2-2		External			Reversible	$55.00

Polypropylene/Nylon Float Switches

	Catalogue Ref No	Description	Mounting	Length Float	Length Travel	Contact	Trade Price
	MFS17-A-2			20mm	13mm		$53.00
	MFS17-B-2	Polypropylene Level/ Float Switch Vertical	Top			NO or NC Reversible	$62.00
	MFS17-C-2			25mm	8mm		$60.00
	MFS17-D-2						$56.00
	MFS21-K-2	PPE Compact Float Sw Horiz	Side "1/4" "BSP"	25mm	8mm	NO or NC Reversible	$71.00

Special Models

Level Switch Map

MFS 17-A MFS 17-B MFS 17-C MFS 17-D MFS 23-F MFS 25-J RFS-2 RFS-6 RFS-8

MFS9-N1
MFS9-N2
MFS10-N1
MFS10-N2
MFS21-E
MFS21-K

RFS-4
RFS-9
RFS-11A
RFS-12
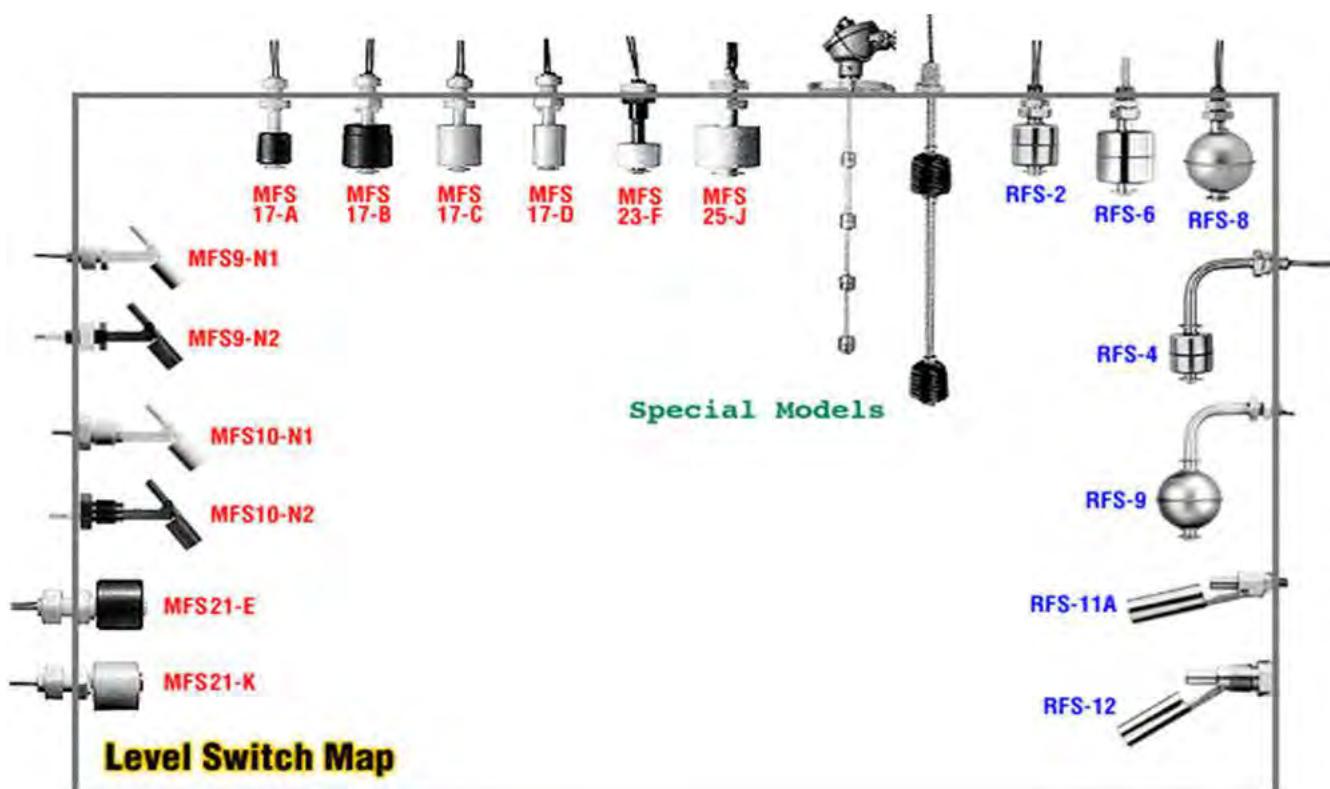
Stainless Steel Level Switches

	Catalogue Ref No	Description	Fitting	Thread	Operating Temp (Max)	Contact	Trade Price
	RFS-12-2	SS316 Level Sw Horizontal	External	"1/2" "NPT"			$161.00
	RFS-12P-2*		External	"1/2" "NPT"			$193.00
	RFS-13	SS304 Level Sw Horizontal			120°C	NO or NC, Reversible	$185.00
			Internal	"1/8" "BSP"			
	RFS-11A-2						$149.00

*Note: Plug in version

Stainless Steel Float Switches

	Catalogue Ref No	Description	Mounting	Length Float	Travel	Contact	Trade Price
	RFS-2-2		Top				$90.00
	RFS-4-2		Side	27mm	10mm		$181.00
	RFS-6-2	SS316 Level/Float Switch Vertical		48mm		NO or NC, Reversible	$268.00
	RFS-8-2		Top				$152.00
	RFS-9-2		Side	42mm	18mm		$180.00

RFS-4-2	RFS-6-2	RFS-8-2	RFS-9-2

Stainless Steel 316
Side Mounting
120°C Max Temp
1/8" BSP

Stainless Steel 316
Top Mounting
200°C High Temp
10 bar
1/8" BSP

Stainless Steel 316
Top Mounting
120°C Max Temp
40 bar
1/8" BSP

Stainless Steel 316
Side Mounting
120°C Max Temp
40 bar
1/8" BSP

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Sustainable Environmental Controls

¤ Pressure switches, transmitters, transducers & sensors for HVAC systems

¤ Humidity, Temperature & Air Quality Sensors

¤ Valves & valve actuators

Pressure Switches - IP65

Catalogue Ref No	Description	Range	Trade Price
DSB140F001	Pressure Switch	0 - 2.5 Bar	$275.00
DSB143F001		0 - 6 Bar	$263.00
DSB146F001		0 - 10 Bar	$278.00
DSB152F001		6 - 16 Bar	$289.00
DSD137F002	Differential Pressure Switch	0.2 - 1.0 Bar	$487.00
DSD140F002		0.4 - 2.5 Bar	$487.00
DSD143F002		0.5 - 6.0 Bar	$487.00

Pressure Transducers

Catalogue Ref No	Description	Operating Voltage	IP Rating	Output	Range	Trade Price
DSDU101F021	Differential Pressure Transducer	24VAC	IP65	0(2) - 10V or 0(4)-20mA	0 - 1.0 Bar	$821.00
DSDU103F021					0 - 2.5 Bar	$821.00
DSDU106F021					0 - 6.0 Bar	$821.00
SDU101F001	Differential Pressure Transducer		IP44		0 - 100Pa	$701.00
SDU101F002					0 - 200Pa	$701.00
SDU101F003					0 - 400Pa	$701.00

Humidity Transducers

Catalogue Ref No	Description	Output	Trade Price
EGH110F002	Duct Humidity Sensor 0-95% rH	0 (2)-10v or 0 (4)-20mA	$362.00
EGH130F001	Room Temperature & Humidity Transducer 5-95% rH	0 (2)-10v	$340.00

Humidistat's

Catalogue Ref No	Description	Adjustment	Set Range	Trade Price
HSC120F001	Humidistat Wall Mounted	External	30 90% RH	$150.00
HSC120F010		Internal (Tamper proof)		$162.00
HBC111F001	Humidistat Duct Mounted	-	15 95% RH	$334.00

Air Quality

Catalogue Ref No	Description	Output	Trade Price
EGQ110F001	Duct Air Quality Sensor		$363.00
EGQ120F001	Room Air Quality Sensor	0-10V	$347.00
EGQ212F002	Duct CO2 & Temperature Sensor		$670.00
EGQ222F002	Absolute Humidity Enthalpy Sensor		$630.00

Temperature Transmitters & Sensors

Catalogue Ref No	Description	Detail	Set Range	Trade Price
EGT130F001	Room Temperature Sensor	0-10V Output	0-50°C	$173.00

Room Thermostats 5-30°C

Catalogue Ref No	Description	On-Off	Cool	Fan 3 Spd	Heat	Trade Price
TSO670F001	Room T'stat Heating & Cooling	-	✓	-	✓	$37.00
TSHK642F001	Room T'stat Fan Coil 1H/1C 2 Pipes	✓	-	✓	-	$77.00
TSHK644F001	Room T'stat Fan Coil 1H/1C	-	✓	✓	✓	$91.00
TSHK670F001		-	-	-	-	$138.00
TSHK671F001	Room T'stat Fan Coil 4 Pipe	✓	-	-	-	$145.00
TSHK672F001		✓	-	✓	-	$145.00

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Unit Valves

	Catalogue Ref No	Description	Flow Rate	Fitting	Trade Price
	BUL010F300		1.6kv		$82.00
	BUL010F310		1.0kv		$82.00
	BUL010F320		0.63kv	DN10	$82.00
	BUL010F330	3 Port Unit Valve	0.4kv		$82.00
	BUL015F300		4.0kv	DN15	$94.00
	BUL015F310		2.5kv		$94.00
	BUL020F300		5.0kv	DN20	$115.00
	VUL010F300		1.6kv		$41.00
	VUL010F310		1.0kv		$41.00
	VUL010F320		0.63kv	DN10	$41.00
	VUL010F330	2 Port Unit Valve	0.4kv		$41.00
	VUL010F340		0.16kv		$41.00
	VUL015F300		3.5kv	DN15	$47.00
	VUL015F310		2.5kv		$47.00
	VUL020F300		4.5kv	DN20	$59.00

Globe Valves

	Catalogue Ref No	Description	Fitting	Flow Rate	Trade Price
	BUN015F300		DN15	Kvs4	$224.00
	BUN020F300		DN20	Kvs6.3	$238.00
	BUN025F300		DN25	Kvs10	$267.00
	BUN032F300	3 Way Valve Threaded	DN32	Kvs16	$326.00
	BUN040F300		DN40	Kvs22	$399.00
	BUN050F300		DN50	Kvs28	$664.00
	BUN050F200		DN50	Kvs40	$664.00
	VUN015F300		DN15	Kvs4	$222.00
	VUN020F300		DN20	Kvs6.3	$235.00
	VUN025F300		DN25	Kvs10	$265.00
	VUN032F300	2 Way Valve Threaded	DN32	Kvs16	$322.00
	VUN040F300		DN40	Kvs22	$395.00
	VUN050F300		DN50	Kvs28	$657.00
	VUN050F200		DN50	Kvs40	$657.00

Valve Fittings: Screw threaded sleeve & solder nipple: Fittings available on request

Flanged Globe Valves: Water, Glycol, Steam

	Catalogue Ref No	Description	Size	Flow Rate	Trade Price
	BUE040F300	BUE Range 3-Way Flanged Valves	DN40	Kvs22	$524.00
	BUE050F200		DN50	Kvs40	$593.00
	BQE065F300		DN65	Kvs63	$945.00
	BQE080F300	BQE Range 3-Way Flanged Valves	DN80	Kvs100	$1,260.00
	BQE100F300		DN100	Kvs160	$1,955.00
	BQE150F300		DN150	Kvs320	$3,066.00
	378284102	24V Stem/Packing box 15W Heater			$282.00

Note: Further sizes and valve types available on request

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Actuators for Unit Valves

	Catalogue Ref No	Description	Operating Voltage	Input	Details	Trade Price
	AXM217F202	Valve Actuator	24VAC	2-3 Point		$187.00
	AXM217SF402			0 - 10V		$238.00
	AXS215SF222	Actuator - NO	24VAC	0 - 10V	For VUL Valves and BUL /Valves	$120.00
	AXS215SF122	Actuator - NC				$120.00
	AXT211F210	Actuator - NO	230VAC	On - Off		$56.00
	AXT211F212		24VAC			$56.00
	AXT211F110	Actuator - NC	230VAC	On - Off		$56.00
	AXT211F112		24VAC			$56.00

Globe Valve Actuators - For Valves 15 to 50mm

	Catalogue Ref No	Description	Detail	Valves	Speed & Force	Trade Price
	AVM105SF132	Valve Drive (Screw) 24V	(0-10V)	VUN/BUN	DN15 - 25	$240.00
	AVM115SF132				DN32 - 40	$318.00
	AVM321SF132	Linear Drive 24V	Modulating (0-10V) (4-20mA)	-	DN15 - 65 1000N	$555.00

Globe Valve Actuators - For Valves Over 65mm

	Catalogue Ref No	Description	Detail	Valves	Speed & Force	Trade Price
	AVM234SF132-6	Valve Drive (Flanged) 24V	Modulating 0-10V Or 4-20mA	V6/B6	DN65-150	$987.00
	AVM234SF132-5				DN15-50	$941.00
	AVM234SF132			BUE / BUG/ BQE/VUE/ VQE	DN65-150	$902.00

The Swiss-based SAUTER Group is considered in many parts of the world to be one of the technologically leading companies in the fields of building automation and system integration. As a specialist, SAUTER develops, manufactures and markets energy-efficient solutions in building management systems.

The company's project portfolio includes well-known references in the following types of property: offices and administrative buildings, research and educational institutions, hospitals, industrial and laboratory premises, airports, leisure complexes and hotels. The company's four divisions – Systems, Components, Services & FM – provide holistic expertise in building management: SAUTER creates environments for the future.

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seitron

Room Thermostats

- ¤ Electro-mechanical & electronic room thermostats
- ¤ Heating only & heatpump (air-conditioning) thermostats
- ¤ Digital chronostats (timer & thermostat combinations)
- ¤ Domestic gas detection alarm systems

Heatpump (Air-conditioning) Electronic Thermostats With Deadband

	Catalogue Ref No	Description	Setting Range	Current Rating	Operating Voltage	Trade Price
	TAEZN4MC	Wall Thermostat + LED's	6-30°C	2 x 5A (1A) 250VAC	230VAC	$186.00
	TAEZN42C				24VAC	$186.00
	TFEZN4MC	Wall Thermostat + Off/On & 3 Spd Fan Sw's		5A (1A) 250VAC	230VAC	$211.00
	Note: For external probes, use STLNTSA150					
	NB: TFEZN4MC is similar to KLRe 5255 & 56/24VAC					

Diamond Range Electronic Heatpump Thermostats

	Catalogue Ref No	Description	Setting Range	Current Rating	Operating Voltage	Trade Price
	TFF01M	Wall Thermostat With Digital Display	6-30°C	Motor = 3A 230V Valves = 0.3A 230V	230VAC	$209.00
	TFX012	Wall Thermostat + Off/On & 3 Spd Fan Sw's		2 x 5A (1A) 250VAC	24VAC	$186.00
	TFX01M				230VAC	$186.00
	TFEZ01MC					$160.00

Electro-Mechanical Heating/Cooling Thermostats

	Catalogue Ref No	Description	Setting Range	Current Rating	Operating Voltage	Trade Price
	TAM011MI	Standard Wall T'stat	8-30°C	16A Heat 5A Cool	230VAC	$42.00
	TAM013MI	Standard Wall T'stat + On/Off Switch & LED		2 x 5A (1A) 250VAC		$51.00

Electronic Chronostats & Thermostats Heating + Heating & Cooling
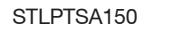
	Catalogue Ref No	Description	Setting Range	Current Rating	Operating Voltage	Trade Price
	MAGICTIME PLUS	Programmable Heating Chronostat	5-35°C	5A (1A) 250VAC	Battery Op 1.5V AA x 2	$216.00
	ITPF221	Telephone Interface 2I/O Power Pack Incl	-	2 x 3A 250VAC	12VDC 100mA	$487.00
	TAEDI4MC	Electronic Room T'stat c/w Digital Display	6-30°C	2 x 5A (1A) 250VAC	230VAC	$198.00

Installing a room thermostat

Wall cavities are prone to air currents that can vary from the room temperature. As it is the room temperature that is important it is recommended that wall thermostats are surface mounted, or that any existing hole is covered by a flush plate, where possible.

Sensors & Accessories

	Catalogue Ref No	Description	For Use With...	Sensor Type	Trade Price
	STANP3	Room Sensor	TAEZN/TFEZN	NTC	**$53.00**
	STLNTSA150	Remote Sensor 1.5m 4.7K ohm @ 25°C IP65	TAEZN... TF...	NTC	**$43.00**
	STLDEIM150	Thermostat 10K Sensor Remote Probe 1.5m	TFX...,TFF....MAGICTIME PLUS	NTC	**$43.00**
	STLOTPA150	Remote Sensor 100K ohm @ 25°C IP44	MAGICTIME	NTC	**$43.00**
	STLPTSA150	Remote Sensor 2K Ohm @ 25° C IP44	TAED14MC	PTC	**$45.00**
	SENSOR HOUSING	Plastic Sensor Housing			**$26.00**

Beagle Semiconductor Based Flammable Gas Detector

This detector has an elegant housing with a very compact size (117x85x38mm), with the following technical specifications:

Control Voltage 230VAC 50Hz

Outputs 1 Relay 230VAC, 85 dB A

Acoustic alarm

Coloured LEDs - Active detector = green
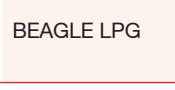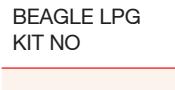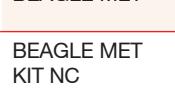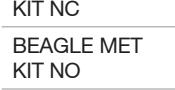
- Malfunction = yellow

- Alarm = red

BEAGLE is also equipped with a test push-button to make sure the detector is in proper working order.

Compliant with UNI CEI EN50194 standards.

Beagle - Indoor Gas Detection Alarm System (Residential/Commercial)

	Catalogue Ref No	Description	For Use With...	Sensor Type	Trade Price
	BEAGLE DOUBLE	Gas Detector IP42	Methane & LPG		**$313.00**
	BEAGLE LPG		LPG		**$165.00**
	BEAGLE LPG KIT NC	Gas Detector IP42 + N/C Solenoid Valve	LPG	230VAC 50Hz	**$429.00**
	BEAGLE LPG KIT NO	Gas Detector IP42 + N/O Solenoid Valve			**$313.00**
	BEAGLE MET	Gas Detector IP42			**$165.00**
	BEAGLE MET KIT NC	Gas Detector IP42 + N/C Solenoid Valve	Methane		**$429.00**
	BEAGLE MET KIT NO	Gas Detector + N/O Solenoid Valve			**$313.00**

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Domestic Gas Detection

	Catalogue Ref No	Description	Outputs	Trade Price
	RGD-GPLMP1B	Domestic Gas Detector 12VDC LPG	-	**$280.00**

Commercial Gas Detection

	Catalogue Ref No	Description	Outputs	Trade Price
	RGIMETMSX2	Standalone Sensor/Controller For Natural Gas	-	**$526.00**
	RGI000MSX2	Central Control Module For 2 SGI Sensors	2 Relays	**$526.00**
	RGI000MSX4	Central Control Module For 4 SGI Sensors		**$805.00**
	SGIGPL	LPG Remote Sensor For RGI Controllers	-	**$316.00**
	SGIMET	Natural Gas Sensor For RGI Controllers	-	**$316.00**

RGIMETMSX2

RGI000MSX2

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setra SENSING SOLUTIONS

Room Pressure Monitoring System

¤ Graphics based LCD controller for room pressure
¤ Automated management for
- Clean Rooms
- Medical/Pharmaceutical
- Electronics Manufacturing
- Food Production

Room Pressure Monitors

Catalogue Ref No	Description	Trade Price
SRCM025LBAH1HNS	SRCM Room Pressure Monitor, +/- 25 Pa, 24VAC	$3,586.00
SRCM025LBAH2HNS	SRCM Room Pressure Monitor, +/- 25 Pa, 24VAC, BACnet	$3,955.00

True Pressure Measurement

¤ Pressure range models from ± 25Pa to ± 1000Pa
¤ High accuracy Setra low differential capacitance technology
¤ BACnet compatible version
¤ Suitable for both negative and positive pressure rooms
¤ Hygenic solution - no contamination or clogging
¤ Standard on-board pressure sensor and optional remote sensors (temperature/humidity)
¤ No visible mounting fasteners
¤ Face is sealed for cleaning or wipe-down
¤ Easy Set Up LCD touch-screen display
¤ Password protection

Room I.D.
Customer Configurable Feature - Customize Room Name

Room Pressure Mode
Display Positive, Negative, or Neutral Mode of Room

Room Pressure Status
Visual Indication of Normal, Warning, and Alarm Condition

Displayed Pressure
Displays Room Pressure in User Selectable Units

Pressure Slide Bar
Graphic Display of Pressure Reading Relative to Alarm Setpoints

Setup Menu
Password Protected Entry to Menu Structure

Room Condition Banner
User Configurable Status Display
Green = "Clear to Enter"
Yellow = "Caution
Red = "Do Not Enter"

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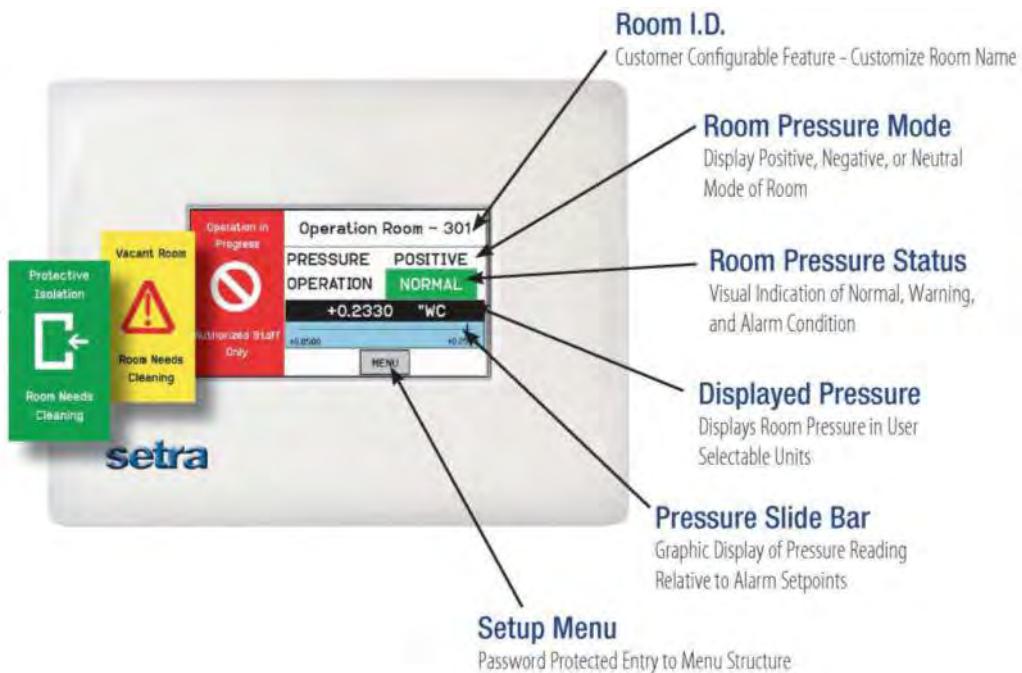
Thermostats

- ¤ Industrial thermostats for a wide range of applications
- ¤ Duct sensors & pockets
- ¤ Gauge style thermometers

Thermostats

	Catalogue Ref No	Description	Adjust	Current Rating	Temperature Range	Differential	Trade Price
	7C1.1R306	Pipe/Surface Mtg Thermostat	External		+10 To +90°C	6°±2°C	$124.00
	7C2.10306		Internal				$124.00
	7K1.1R336	Capillary T'stat 1.5m	External		0 To +90°C	4°±2°C	$101.00
	7K1.FR336				-35 To +35°C	3°±1°C	$101.00
	7P1.1R306	Immersion Thermostat	External	16Amps			$126.00
	7P2-10306		Internal		0 To +90°C		$126.00
	8P5.0R606	Dual Immersion T'stat	External (Fixed Manual Reset)			6°±2°C	$192.00
	8N2.B06B6	Hot Air Dual Thermostat	Internal		0 To +60°C + 30 To +120°C		$225.00
	9C2.70306	Pipe/Surface Mtg Thermostat	Internal (Manual Reset)		+30 To +70°C	Manual Reset	$124.00
	9N2.Q03A6	High Limit Duct Mtg Thermostat			+70 To +110°C		$132.00

Accessories

	Catalogue Ref No	Description					Trade Price
	4548.25.0A	Duct Sensor Support					$38.00
	4550.30.1A	100mm Pocket For Capillary Bulb					$30.00
	4550.30.4A	200mm Pocket For Capillary Bulb					$31.00

Thermometer

	Catalogue Ref No	Description			Temperature Range	Differential	Trade Price
	110.10125.00A	Capillary Thermometer Indicator Only, 55mm Ø Gauge, 30 x 6mm Ø Probe			0 To +120°C	-	$40.00

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Portable Test Instruments, Data Loggers & I/R Cameras

¤ Environment - dust, wind, humidity, pH measurement & gas detection

¤ Temperature - ambient, refrigeration, food, thermal imaging

¤ Mechanical - RPM counters

Digital Probe Thermometers - Food Industry

	Catalogue Ref No	Description	Range	Accuracy*	IP Rating	Trade Price
	0560.1113	1113 Probe Thermometer	-20 to +230°C	±1°C*	IP67	$50.00
	0560.0103	103 Folding Thermometer	-30 to +220°C	±0.5°C*	IP55	$80.00
	0563.0104	104 Folding Thermometer	-50 to +250°C	-	IP65	$138.00
	0563.1052	T105 Robust Probe Thermometer	-50 to +275°C	±0.5°C*	-	$431.00
			T105 Application Set - Inc All Probes, Case & Holder			
	0563.1051		T105 Instrument Kit - Inc Short Probe & Holder			$201.00
	0613.1051	T105 Accessories	Short Penetration Probe 100mm x 3.5mm Ø			$48.00
	0613.1052		Frozen Food Probe (Drill) 90mm x 8mm Ø			$139.00
	0613.1053		Long Penetration Probe 200mm x 3.5mm Ø			$64.00
	0563.1063	106-T3 Probe Temp Meter	-50 to +275°C	±0.5°C*	-	$87.00
			106 Kit Inc Top Safe, Belt Clip & Holder			
	0563.1080	108	-50 to +300°C	±0.5°C*	IP67	$157.00
			108 Waterproof Thermometer with Type T Thermocouple Probe.			
	0563.1082	108-2	Testo 108 Waterproof Thermometer with Type T Lockable Probe			$228.00
	0560.1128	112 NTC/Pt100 Probe/Contact Thermometer	NTC -50 to +120°C PT100 -50 to +300°C	±0.2°C*	-	$371.00
			112 Instrument Only - can be calibrated for HACCP			
	0560.9261	926 Compact Class 1Ch Instrument	-50 to +400°C	±0.3°C*	-	$189.00
			926 Instrument Only			
	0563.9262		926 Food Set - Penetration Probe & Top Safe Case			$327.00

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Digital Infra-Red Thermometers - Food Industry

	Catalogue Ref No	Description	Range	Accuracy	Trade Price
	0563.8051	805 Mini I/R & TopSafe Case	-25 to +250°C	±1.5°C (-20 To 100°C) ±2.0°C (remaining range)	**$112.00**
	0563.8282	826-T2 TopSafe	Infra-Red Thermometer With 1 Point Laser Guidance Inc Top Safe Protective Case -50 to +300°C	±1.5°C (-20 To 100°C) ±2.0°C (remaining range)	**$203.00**
	0563.8284	826-T4	Infra-Red Thermometer With 1 Point Laser Guidance & Probe Inc TopSafe Protective Case Infra-Red -50 to +300°C Probe 50 to +230°C	I/R = ±1.5°C (-20 To 100°C) ±2.0°C (remaining range) Probe = ±0.5°C (-20 To 100°C) ±1.0°C (remaining range)	**$317.00**
	0560.1040	104-IR	Infra-Red Thermometer With 2 Point Laser Guidance & Folding Probe IP65 Infra-Red -30 to +250°C Probe -50 to +250°C	I/R = ±1°C (0 To 250°C) ±2.0°C (-20 To -0.1°C) Probe = ±0.5°C (-30 - 99.9°C) ±2.0°C (-50 To -30.1°C)	**$249.00**
	0560.8316	831	Infra-Red Gun Thermometer With 2 Point Laser Guidance & Leather Pouch -25 to +250°C	±1.5°C (-20 To 100°C) ±2.0°C (remaining range)	**$245.00**

Food Grade - Certified Anti-bacterial Wipes

Specially formulated for supermarkets and manufacturers where food food probes are used to monitor product temperatures as part of a HACCP food safety program.

Knives, utensils and thermometers can be cleaned in one simple operation without leaving alcohol or fragrance odours behind. The large size of the wipes means they are big enough to clean down the workspace as well.

Ingredients

Active:
- ¤ Sodium Salt of 4-chloro-
- ¤ 3-methyphenol

Other:
- ¤ Water, Isopropanol, citric
- ¤ acid Neodol-25-3s/27

Probe Wipes

	Catalogue Ref No	Description	Pack	Trade Price
MPI AsureQuality	CI 109	Antibacterial Probe Wipes *Certified*	Dispenser Tub = 100 Wipes (min 10 tubs)	**$5.99**
	CI 109R		Refill Pack = 100 Wipes (per ctn lot of 10 packs)	**$5.10**
	CI 109R200		Refill Pack = 200 Wipes (per ctn lot of 20 packs)	**$8.69**
	Wipes Dispenser		Free with Min. order of 5 x CI 109R200	

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pH Measurement Instruments & Accessories

	Catalogue Ref No	Description	Probe Head	IP Rating	Trade Price
	0563.2052	205 Starter Kit			$665.00
	0563.2051	205 Instrument Kit	Robust Penetration Probe	IP65	$490.00
	0650.2051	205 Replacement Probe			$317.00
	0554.2051	205 Storage Cap			$26.00
	0563.2065	206 pH1 Starter Kit	Liquids		$442.00
	0563.2061	206 pH1 Instrument Kit			$265.00
	0563.2066	206 pH2 Starter Kit	Semi Solids	IP65	$613.00
	0563.2062	206 pH2 Instrument Kit			$442.00
	0563.2063	206 pH3 Instrument Kit	BNC For External Probes		$214.00
	0650.2061	206 pH1 Replacement Probe - Liquids			$146.00
	0650.2062	206 pH2 Replacement Probe - Semi Solids			$303.00
	0554.2067	206 Storage Cap			$26.00

pH Measurement Consumables

	Catalogue Ref No	Description			Trade Price
	0554.2061	pH Buffer 4.01 Dosing Bottle			$32.00
	0554.2063	pH Buffer 7.01 Dosing Bottle			$32.00
	0554.2065	pH Buffer 10.01 Dosing Bottle			$40.00
	ECBU4BTC1LIT	pH Buffer 4.01 Buffer Solution, 1 Litre Refill			$58.80
	ECBU7BTC1LIT	pH Buffer 7.00 Buffer Solution, 1 Litre Refill			$58.80
	ECBU10BTC1LIT	pH Buffer 10.01 Buffer Solution, 1 Litre Refill			$58.80

Eurotec, Testo & HACCP

HACCP INTERNATIONAL PROGRAMME
FOOD SAFETY
CERTIFICATION

Hazard Analysis and Critical Control Points, or HACCP, is a systematic preventive approach to food safety and pharmaceutical safety that addresses physical, chemical, and biological hazards as a means of prevention rather than finished product inspection. HACCP is used in the food industry to identify potential food safety hazards, so that key actions can be taken to reduce or eliminate the risk of the hazards being realized. The system is used at all stages of food production and preparation processes including packaging, distribution, etc.

HACCP systems, health department audits, the clients of food manufacturers and transporters require test instruments to be calibrated periodically to ensure their accuracy. Testo instruments are backed up in New Zealand by Eurotec's test and service facility. In addition to providing service and warranty support, Eurotec also monitors the calibration status of your instrument. Notification is mailed out through the calibration database to ensure that your instrument is calibrated annually. It is returned complete with a new calibration certificate.

Calibration - Food Probe Instruments Only

			Trade Price
	-	Single Point 'Delivery' Calibration - Food Instruments only	N/C
	-	Three Point HACCP Calibration	POA

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Every drop is valuable

The new cooking oil tester testo 270 ensures quality and saves costs

testo

Food Industry Specific Instruments

Catalogue Ref No	Description	IP Rating	Trade Price
0563 2750	270 Cooking Oil Tester	IP65 (Rinseable under running water)	**$865.00**

Cooking oil has a limited lifetime and is a measurable overhead. Changing the oil too frequently is an unnecessary expense; not changing it quickly enough is bad for the quality of the end product and can lead to complaints from the customer. Now Testo takes the guess work out of changing cooking oil.

The testo 270 easily, quickly and reliably determines the quality of cooking oil. It measures the "Total Polar Material" (TPM) content in the oil. The new testo 270 stands out thanks to ergonomic design and intuitive handling. The clear alarm via the coloured backlit display makes it even easier to evaluate the quality of the cooking oil. The use also prevents too early replacement of the cooking oil that reduces the oil consumption by up to 20%.

- Clear alarms via backlit display using traffic light principle
- Operating Temperature 0 to +50 °C
- Easy to clean thanks to smooth surfaces
- Configuration menu and limit values can be locked with a pin number to protect them from external manipulation
- Conforms to: VO (EG) 1935/2004, EC guideline 2004/108/

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testo 184 T3

Data Loggers

	Catalogue Ref No	Model	Channels	Sensor	Temperature Range		IP Rating	Trade Price
					Internal	External		
	0572.1560	174T	1 Int	NTC	-30...+70°C	-	IP65	$112.00
	0572.0561	174T + USB SET						$249.00
	0572.6560	174H	2 Int	NTC	-20...+70°C	-	IP20	$180.00
	0572.0566	174H + USB SET			Humidity 0...100%			$317.00
	0572.1751	175-T1	1 Int	NTC	-35...+55°C	-	IP65	$271.00
	0572.1752	175-T2	1 Int + 1 Ext	NTC	-35...+55°C	-40...+120°C		$340.00
	0572.1753	175-T3	2 Ext	TC T&K	-	-50...+1000°C		$408.00
	0572.1754	175-H1	2 Int	NTC	-20...+55°C Humidity 0...100%	-	IP54	$567.00
	0572.1761	176-T1	1 Int	PT100	-35...+70°C	-	IP68	$681.00
	0572.1762	176-T2	2 Ext	PT100	-51...+400°C	-	IP65	$688.00
	0572.1763	176-T3	4 Ext	TC T&K	-	-200...+750°C	IP54	$799.00
	0572.1764	176-T4	4 Ext	TC T&K	-	-200...+1000°C	IP54	$795.00
	0572.1765	176-H1	2 Probes 4 Ext	NTC	-20...+70°C Humidity 0...100%	-40...+70°C	IP65	$936.00
	0572.1766	176-H2	2 Probes 4 Ext	NTC	-20...+70°C Humidity 0...100%	-40...+70°C	IP65	$1,013.00
	0572.1767	176-P1	1 Int 2 Probes 4 Ext	NTC + Abs Pressure	-20...+70°C Humidity 0...100% 600...1100mbar	-40...+70°C	IP65	$1,161.00

Logistics Data Loggers - 184 Series

	Catalogue Ref No	Model	Operating Time	Sensor	Temperature Range	IP Rating	Trade Price
	0572.1841	184-T1	Single Use - 90 days	NTC	-35 to +70°C	IP67	$90.00
	0572.1842	184-T2	Single Use - 150 days				$113.00
	0572.1843	184-T3					$228.00
	0572.1844	184-T4	Unlimited Use	NTC	-80 to +70°C		$388.00
	0572.1845	184-H1			-20 to +70°C Humidity 0...100%	IP30	$310.00
	0572.1846	184-G1			-20 to +70°C Humidity 0...100% 0 to 100g Shock		$574.00

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Saveris 2 - WiFi Data Logger System

Catalogue Ref No	Model	Description	Detail	Trade Price
0572.2031	2-T1		Display & internal NTC temperature sensor	**$247.00**
0572.2032	2-T2	WiFi data logger (wireless LAN)	Display, for measuring temperature, 2 connections for external NTC temperature probes or door contacts	**$309.00**
0572.2033	2-T3		Display for measuring temperature, two external connections for TC temperature probes (Types K, T, J)	**$411.00**
0572.2034	2-H1		Display for measuring temperature & relative humidity, capacitive internalhumidity sensor	**$514.00**
0572.2035	2-H2		Display for measuring temperature & relative humidity, connection for one external humidity probe	**$483.00**
Note:		All Data Loggers include: USB Cable, Wall Bracket, Batteries & Calibration Certificate		

Saveris 2 - Cloud Software Licences

Testo Saveris 2 Cloud licence BASIC version		**Supplied FREE**
Testo Saveris 2 Cloud licence ADVANCED version. Includes 25 SMS per logger/year*		*conditions apply, please call*

Saveris 2 Accessories*

0572.2020	Saveris 2 Power Supply with Cable	**$52.00**
0572.2155	External Humidity and Temperature Probe 1.3m cable	**$411.00**
0572.2152	Saveris 2 Door Contact Connecting Cable Mini DIN	**$21.00**

For custom probes available for Saveris 2 please see page 156.

Saveris 2 - Temperature and Humidity Monitoring to the Cloud

Temperature and Humidity monitoring to the Cloud anywhere, anytime.

Cloud Storage

The **Testo Saveris 2** system enables users to monitor temperature and humidity levels easily, anytime and anywhere, without compromising security, or creating bother with time consuming software.

The system consists of WiFi data loggers and a Cloud data store. The testo Saveris 2 WiFi data loggers reliably record temperature and humidity at defined intervals, and transmit the measurement values directly by WiFi to the Testo Cloud.

The Testo Saveris 2 App
With the App for iOS and Android, you can now operate your Saveris 2 system with more ease and flexibility.

- Easy recognition & selection of the WiFi network*
- Faster parallel commissioning of several loggers*
- Create and send status reports*
- Push notifications of limit value violations
- Combine email and SMS alarms

*These functions are only available with the Android version of the Saveris 2 App

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Digital Refrigeration Manifolds (Gauges)

Catalogue Ref No	Model	Description/Inclusions	Trade Price

552

Testo 552 – For the evacuation of refrigeration/air conditioning systems and heat pumps
Testo 552 is a digital vacuum gauge for the evacuation of refrigeration systems and heat pumps. It measures even the smallest absolute pressures, and delivers highly accurate information about a system's status of dehumidification (removal of foreign matter, incl. oils, foreign gases, etc). **Via a Bluetooth interface**, the Testo 552 connects with the Testo Smart Probes App on your smartphone or tablet. This allows you to monitor the absolute pressure reached during the evacuation conveniently and wirelessly. In addition to this, the measurement results can be quickly documented in the App and sent by e-mail.

Its robust construction makes it suitable for daily use, and protects from dirt and water (IP42)

Measurement data monitoring and dispatch via testo Smart Probes App
Measurement of the evaporation temperature of H2O

NEW

0560 5522	552 Vacuum Gauge		$342.00

549

Testo 549: Just switch on, Measure and Read off
Large figures allow the values to be read quickly & easily. Two temperature-compensated pressure sensors measure high and low pressure quickly & precisely and automatically calculate the temperatures. A glance at the instrument display is enough, and you see the measurement result. Two temperature inputs guarantee you the simultaneous calculation and display of superheating and subcooling. The temperature can also be displayed. By simply pressing a button, you can switch between the measurement tasks at will.

NEW

Robustness and extremely convenient operation
Real time calc of superheating/subcooling

Pressure measurement/temperature calculation 39 refrigerants stored

0560.0550	549 Manifold Only		$501.00

550

Testo 550: The Bluetooth Manifold for Refrigeration systems and Heat pumps
The new testo 550 is the robust tool for daily work on refrigeration systems and heat pumps. The robust 2-way metal valve block with 3 connections and 3 hose parkers allows you to work quickly and easily. The App integration via Bluetooth opens up new possibilities for efficient analysis and documentation. Via the wireless connection, users can read off the measurement data on a Smartphone or tablet, allowing them to work more quickly and conveniently. In addition to this, the user can finalize and send the measurement report directly on site.

NEW

The App allows the list of stored refrigerants to be updated, for example. The more robust housing, with a metal frame around the display, protects the new testo 550 even more reliably from impact. The vacuum display indicates the level of vacuum reached in evacuation.

The testo 550 is highly suitable for commissioning, service and maintenance. Thanks to additional features such as the automatic heat pump mode, which eliminates the need to switch over the hoses, and the temperature compensated tightness test function, working on refrigeration systems and heat pumps is easier than ever before.

0563.1550	550 Manifold Set	Set includes manifold with Blue tooth, 2 x clamp probes, batteries, case and calibration certificate.	$559.00

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Digital Refrigeration Manifolds (Gauges)

Catalogue Ref No	Model	Description/Inclusions	Trade Price

557

NEW

Testo 557: The Bluetooth Manifold for Commissioning, Service and Maintenance

Enjoy efficient analysis and documentation with the Bluetooth App integration. The wireless connection allows users to read off the measurement data on a Smartphone or tablet, and to work more quickly and conveniently. In addition to this, the user can finalize and send the measurement report directly on site. The App alows the list of stored refrigerants to be updated, for example.

The external probe for highly precise vacuum measurements is also new. The new digital manifold testo 557 is suitable for all measurements on a refrigeration system or heat pump. The manifold has a robust 4-way valve block with additional connection possibilities, for example for a vacuum pump or a refrigerant bottle. This provides a considerable handling advantage, and enables fast, safe and efficient work in commissioning, service and maintenance.

App integration via Bluetooth for fast and convenient monitoring and reporting on site. Refrigerant update in the instrument via App	4-way valve block for fast and efficient work. External vacuum probe supports evacuation of the system with highly precise measurement

0563.1557	557 Manifold Set	Set includes manifold with Blue tooth, 2 x clamp probes, external vacuum probe, batteries, case and calibration certificate	**$769.00**

570

Testo 570: Measure, Analyze and Document

The Testo 570 is the robust expert for all measurements on a refrigeration system or heat pump. For pressure, temperature or current, you benefit from the extensive analysis possibilities and numerous technical features for all measurement tasks on a system. Carry out long-term measurements or record data in real time & present them graphically. Errors can be found and rectified more quickly.

4-way valve block + 4 connections + 4 hose parkers and sight glass

Vacuum measurement for system evacuation Heat pump mode & high/low pressure + temp Temperature -compensated tightness testing Real time calc of superheating and subcooling	Computerized monitoring, 999Hrs recording "EasyKool" software with extended features Refrigerant management/exact filling levels 40 refrigerants stored

0563.5702	570-2 Digital Manifold Set + Vacuum Gauge	Pro-digital manifold set for commissioning, service & maintenance, 4 way valve block, 2 x clamp probes, batteries, calibration protocol, USB cable & case	**$1,560.00**

0563.3163	The Testo 316-3 refrigerant leak detector can detect all the most common cooling agents and locate even the smallest leaks. Complies with all important regulations and norms.	Can detect all common cooling agents: CFCs, HFCs, FCs. Highly sensitive (< 4 g/a - 1g/a according to DIN EN14624:2012 standard) - can detect even the smallest leaks. Automatic zero setting – can detect leaks in rooms that are already contaminated	**$459.00**

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Fixed Focus Thermal Imaging Cameras

	Catalogue Ref No	Model	Description	Detectors		Temp Range	Trade Price
				Native	Super Res		
	0560.8650	**865**	Fixed Focus Thermal Imaging Camera	160 x 120	320 x 240	-20°C to +280°C	**$1,690.00**

- Visualizing temperature differences from 0.12°C
- Automatic detection of hot and cold spots
- Extensive accessories included: case, pro software, USB cable, lithium-ion rechargeable battery

	Catalogue Ref No	Model	Description	Native	Super Res	Temp Range	Trade Price
	0560.8681	**868**	Fixed Focus Thermal Imaging Camera with Bluetooth and Free Thermography App	160 x 120	320 x 240	-30 to +100° C; 0 to +650° C	**$2,530.00**
	0560.8712	**871**		240 x 180	480 x 360		**$3,380.00**

- Smart: the free Testo Thermography App enables you to write and send reports on site, as well as saving them online.
- Innovative functions, such as Testo ScaleAssist, for comparable thermal images in building thermography

	Catalogue Ref No	Model	Description	Native	Super Res	Temp Range	Trade Price
	0560.8721	**872**	Fixed Focus Thermal Imaging Camera with Bluetooth and Free Thermography App	320 x 240	640 x 480	-30 to +100° C; 0 to +650° C	**$4,560.00**

NEW

The Testo 872 Thermal Imager: The testo 872 thermal imager gives you the best possible support for your work in professional industrial and building thermography. Take thermal images quickly, reliably and smartly with the highest image quality, very good thermal sensitivity and innovative functions.

Technical Highlights:
The Testo 872 thermal imager is characterized by its easy handling and its outstanding image quality. Its technical features are impressive:
• Highest image quality thanks to high resolution: 76,800 temperature measuring points for precise thermography. Infrared resolution of 320 x 240 pixels – extendible to 640 x 480 pixels via integrated SuperResolution Technology
• Detecting temperature differences from as little as 0.06°C
• Testo Thermography App to use mobile terminal devices as a second display and for remote control or to write and send reports, along with saving them online
• Wireless communication thanks to Bluetooth – this means you can also wirelessly integrate the readings of the compatible testo 770-3 clamp meter and testo 605i thermohygrometer
• Built-in digital camera and laser marker generate a real image in parallel to the thermal image
• The testo ScaleAssist automatically ensures optimum setting of the thermal image scale, which means you generate objectively comparable and error-free thermal images, for example of the thermal insulation behaviour of buildings

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Thermal Imaging Cameras

Catalogue Ref No	Description	Detectors		Temp Range	Trade Price
		Matrix	Super Res		
0560.8751	875-1 33Hz Thermal Imaging Camera Refer features table below	160 x 120	320 x 240	-20°C to +280°C	**$3,215.00**
0563.0875 V1	875-1i 33Hz Thermal Imaging Camera Refer features table below	160 x 120	320 x 240	-20°C to +350°C	**$4,170.00**
0563.0875 V2	875-2i 33Hz Thermal Imaging Camera Refer features table below				**$4,950.00**

Product Features 875 Series

Product Features 875 Series	870-1	870-2	875-1	875-1i	875-2i
Exchangeable Telephoto Lens 9° x 7°					(✓)*
Super Resolution	✓	✓	✓	✓	✓
High Temp measurement up to 550°C					(✓)*
Voice Record					✓
Digital Camera		✓		✓	✓
Humidity measurement with wireless humidity probe (automatic measurement value transfer in real time)					(✓)*
Lens Protection Glass			(✓)*	(✓)*	(✓)*
Additional Battery			(✓)*	(✓)*	(✓)*
Fast Battery Charger			(✓)*	(✓)*	(✓)*
*(✓) Optional					

Accessories

Catalogue Ref No	Description	Trade Price
0554.7806	Super Resolution Upgrade: 4 x more measurement values for even more detailed analysis of thermal images	$505.00
0554.8805	Lens Protection Glass: Special Gernamiun protective glass for optimum protection from dust & scratching	$421.00
0554.8802	Additional Battery: Lithium ion rechargeable battery for extending operating time	$151.00
0554.8801	Fast Battery Charger: Desktop charging station for 2 rechargeable batteries	$336.00
A1	Telephoto Lens 9° x 7° (Testo 875-2i only)	$3,206.00
G1	High Temperature measurement up to 550°C (Testo 875-2i only)	$1,013.00
B1	Humidity measurement	$454.00

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Thermal Imaging Cameras

	Catalogue Ref No	Description	Detectors		Temp Range	Trade Price
			Matrix	Super Res		
	0560.0882	Testo 882 Thermal imaging camera 33Hz Refer accessories table below			-20°C to +280°C	$6,950.00
			320 x 240	640 x 480		
	0563.0885 V2	Testo 885-2 Thermal imaging camera 33Hz Refer accessories table below				$13,345.00
					-20°C to +350°C	
	0563.0890 V2	Testo 890-2 Thermal imaging camera 33Hz Refer accessories table below	640 x 480	1280 x 960		$25,400.00

Accessories

Catalogue Ref No	Description	Model			Trade Price
		882	885-2	890-2	
0554.7806	Super Resolution	✓	✓	✓	$505.00
D1 (885)	Exchangeable Telephoto Lens 11° x 9°		(✓)*		$3,902.00
D1 (890)	Exchangeable Telephoto Lens 15° x 11°			(✓)*	$5,134.00
G1 (882)	High Temp measurement up to + 500°C	(✓)*			$1,018.00
I1 (885 & 890)	High Temp measurement up to + 1,200°C		(✓)*	(✓)*	$1,643.00
B1 (882)	Humidity Measurement	(✓)*			$448.00
E1 (885 & 890)	Humidity Measurement		(✓)*	(✓)*	$545.00
C1 (882)	Lens Protection Glass	(✓)*			$421.00
F1 (885 & 890)	Lens Protection Glass		(✓)*	(✓)*	$822.00
0554.8802 (882)	Additional Battery - Lithium ion rechargeable battery for extending operating time	(✓)*			$151.00
0554.8852 (885 & 890)	Additional Battery - Lithium ion rechargeable battery for extending operating time		(✓)*	(✓)*	$151.00
0554.8801 (882)	Fast Battery Charger - Desktop charging station for 2 rechargeable batteries	(✓)*			$336.00
0554.8851 (885 & 890)	Fast Battery Charger - Desktop charging station for 2 rechargeable batteries	(✓)*	(✓)*	(✓)*	$336.00
J1 (885 & 890)	Sequence Capturing		(✓)*	(✓)*	$1,027.00
-	Voice Record	✓	✓	✓	
-	Digital Camera	✓	✓	✓	
*(✓) Optional					

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Testo Smart Probes - Compact Measuring Instruments optimized for Smartphones

¤ For HVAC, Refrigeration and Heating contractors, measurement is more mobile than ever before

¤ Can be operated wirelessly with your own smartphone or tablet. All measurement data is transmitted directly to the free Testo Smart Probes App

Testo Smart Probes

	Catalogue Ref No	Model/ Description	Features	Trade Price
	0560.1115	115i Clamp Thermometer	• Measurement of flow and return temperature in heating systems • Temperature measurement on refrigeration systems for automatic calculation of superheating and subcooling	**$103.00**
	0560.1905	905i Ambient Thermometer	• Measurement of temperature in rooms, ducts and at air outlets • Fast identification of temperature change by graph curve display • Measuring range -50 to +150 °C	**$134.00**
	0560.1805	805i Infrared Thermometer	• Non-contact, infrared measurement of the surface temperature • Measurement spot marking with easily visible 8-point laser circle	**$155.00**
	0560.1605	605i Thermohygrometer	• Measurement of air humidity and temperature in rooms and ducts • Automatic calculation of the dewpoint and the wet bulb temperature	**$155.00**
	0560.1405	405i Thermal Anemometer	• Measurement of air flow velocity, volumetric flow and temperature • Easy configuration of the dimensions and geometry of the duct cross-section for determining volume flow	**$185.00**
	0560.1410	410i Vane Anemometer	• Measurement of air flow velocity, volumetric flow and temperature • Presentation of the volume flow of several outlets for the purposes of regulating systems	**$155.00**
	0560.1510	510i Differential Pressure Meter	• Measuring of gas flow pressure and static pressure • Measurement menu for pressure-drop test incl. alarms • Easy configuration and determination of the volume flow with Pitot tube	**$175.00**
	0560.1549	549i High Pressure Meter	• Measurement of high and low pressure • Quick and easy installation at the pressure connection • Low refrigerant loss thanks to hoseless application	**$124.00**
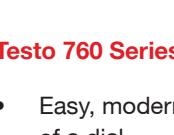
Testo Smart Probe Sets

	Catalogue Ref No	Model/ Description	Features	Trade Price
	0563.0002	Testo Smart Probe Refrigeration Set	• Measures CFC, HFC, HCFC, N, H2O, CO2. • Hose free installation on refrigeration systems. • Easy calculation of Super heat & Sub cool. • Report creation and transfer via smart phone.	$452.00
	0563.0003	Testo Smart Probe VAC Set	• Measures air velocity, temperature, relative humidity, wet bulb / dew point, volume flow. • Kit includes instruments to measure, balance, troubleshoot, and optimise ventilation systems performance. • RH & air flow measurements in-duct and at registers viewed simultaneously	$647.00
	0563.0004	Testo Smart Probe Heating Set	• All necessary measuring instruments in a handy bag • Check measured data wireless on mobile device • Data log and plot data graphically and in excel spreadsheet format on mobile device • Send measured value report in .pdf or excel file format via email	$432.00
	0516.0240	Testo Smart Case Refrigeration		$52.00
	0516.0260	Testo Smart Case VAC	• Robust on the outside, soft on the inside: the Testo Smart Case has a hard outer shell and integrated foam insert with compartments for a precise fit.	$52.00
	0516.0270	Testo Smart Case Heating		$52.00

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Testo Electrical Measuring Instruments

	Catalogue Ref No	Model	Description	Features	Measure Category	Voltage Range	Trade Price
	0590.7601	Testo 760-1	Digital Multimeter	Current Measuring range 1mA - 10 A AC/DC Resistance Measuring range 0.1 - 40 MΩ	Cat IV 300 V Cat III 600 V	0.1mV -600V AC/DC	**$198.00**
	0590.7602	Testo 760-2	True-RMS Multimeter	Current Measuring range 0.1 uA - 10 A AC/DC		0.1mV -600V AC/DC	**$332.00**
	0590.7603	Testo 760-3		Resistance Measuring range 0.1 - 60 MΩ		0.1mV -1000V AC/DC	**$443.00**
	0590.7701	Testo 770-1		Current Measuring range 0.1 - 400 A AC/DC	Cat IV 600 V Cat III 1,000 V		**$287.00**
	0590.7702	Testo 770-2	True-RMS Clamp	Resistance Measuring range 0.1 Ω - 40 MΩ		0.1mV -600V AC/DC	**$376.00**
	0590.7703	Testo 770-3		Bluetooth and Testo Smart Probes App Current Measuring range 0.1 - 600 A AC/DC Resistance Measuring range 0.1 Ω - 60 MΩ			**$465.00**
	0590.0016		Carry Case for Testo 760 Multimeters				**$56.00**
	0590.0017		Carry Case for Testo 770 Clamp Meters				**$56.00**

Works with Testo Smart Probe App!

Testo 760 Series: Digital and True RMS Multimeters

- Easy, modern operation with function keys instead of a dial
- Measurement parameter detection and selection via the socket assignment
- Prevents incorrect settings
- True root mean square measurement - TRMS
- Large, backlit display
- The **760-1** model is the standard version for virtually all daily measuring tasks.
- The testo **760-2** is differentiated by a larger current measurement range, the true root mean square measurement - TRMS - and a low-pass filter
- The **760-3** is the model with the highest specification and, in addition it has a voltage range of up to 1,000 V, along with higher measuring ranges for frequency and capacitance.

Testo 770 Series: True RMS Clamp Meters

- Unique grab mechanism makes it easier to work at tight measuring points
- Auto AC/DC for current and voltage
- Large two-line display
- True root mean square measurement - TRMS
- With additional functions, such as starting current, power and µA measurement
- Bluetooth and testo Smart Probes App
- The testo **770-1** model is the standard version for daily measuring tasks, including starting current measurement.
- The testo **770-2** also has a µA range as well as an integrated temperature adapter for all type K thermocouples.
- In addition to this, the testo **770-3** offers a performance measurement function and can be connected with the testo Smart Probes App by Bluetooth. In the App, you can display the measurement progression as a graph and document it directly in the report.

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Accessories

	Catalogue Ref No	Description	Trade Price
	0590.0001	Magnetic Hanger	$45.00
	0590.0002	Thermo couple adapter Type K Multimeter	$56.00
	0590.0003	Clamp Meter Adapter	$223.00
	0590.0004	Fuse set 5x 10A/1000S	$78.00
	0590.0005	Fuse Set 5x 10A/600V	$45.00
	0590.0006	Fuse Set 5x 630mA/1000V	$34.00
	0590.0007	Fuse Set 5x 630mA/600V	$34.00
	0590.0008	Set Safety Alligator Clips	$43.00
	0590.0009	Set Alligator Clips	$43.00
	0590.0010	Set 2mm Test Leads (90° plug)	$43.00
	0590.0011	Set 4mm Standard Test Leads (90° plug)	$43.00
	0590.0012	Set 4mm Standard Test Leads (straight plug)	$43.00
	0590.0013	Set Lead Extensions (straight plug)	$43.00
	0590.0014	Set Lead Extensions (90° plug)	$43.00
	0590.0016	Carrying Case Testo 760	$56.00
	0590.0017	Carrying Case Testo 755/ Testo 770	$56.00
	0590.0019	Thermo couple Adapter Type K Clamp Meter	$56.00

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Temperature Instruments

Catalogue Ref No	Model	Description		Trade Price
0560.9250	925	Compact Class Temperature Measuring Instrument -50 to 1000°C	1 Channel Instrument T/C Type K • Audible Alarm • Inc Battery & Calibration Protocol	$193.00
0560.9221	922		2 Channel Instrument T/C Type K • Audible Alarm • Inc Battery & Calibration Protocol	$268.00
Note:		For Probe selection please refer to page 141		
0560.1108	110	Compact Class Temperature Measuring Instrument -50 to +150°C	1 Channel Instrument NTC • Audible Alarm • Inc Battery & Calibration Protocol	$215.00
0560.7207	720	Compact Class Temperature Measuring Instrument -100 to +800°C/ -50 to +150°C	1 Channel Instrument PT100/NTC • Min/max Display • Inc Battery & Calibration Protocol	$327.00
Note:		For Probe selection please refer to page 142		
0560.7351	735-1	Pro-Line Temperature Measuring Instrument IP65 -200 to +1760°C	3 Channel Instrument T/C Type K/T/ J/S & Pt100 • Displays, saves & prints Delta T min,max & mean values • Audible Alarm • Inc Battery & Calibration Protocol	$625.00
0563.7352	735-2		3 Channel Instrument T/C Type K/T/ J/S & Pt100 • Data Memory • PC Software • USB Interface Cable • Displays, saves & prints Delta T min, max & mean values • Audible Alarm Calibration Protocol	$835.00
Note:		For Probe selection please refer to pages 141 & 142		

Temperature & Humidity Wall Mount

Catalogue Ref No	Model	Description	Accuracy	Trade Price
0560.6081	608-H1	Wall Mount Thermo Hygrometer	±3%	$122.00
0560.6082	608-H2	Wall Mount Thermo Hygrometer + Alarm		$177.00
0560.6220	622	Desk/Wall Mount Thermo Hygrometer + Alarm	±2% @ 10 To 95% rH	$547.00
0560.6230	623	Desk/Wall Mount Thermo Hygrometer + Manometer		$344.00

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Industrial I/R Guns

Catalogue Ref No	Model	Description	Accuracy	Trade Price
0560.8311	830-T1 -30 To +400°C	Gun Style Infra-Red Thermometer	±1°C	$135.00
0560.8312	830-T2 -30 To +400°C	Gun Style I/R Thermometer + 2pt Laser & K-Type Input 12:1 Optics		$180.00
0560.8314	830-T4 -30 To +400°C	Gun Style I/R Thermometer + 2pt Laser & K-Type Input 30:1 Optics		$271.00
0602.0393	830 Surface Probe			$244.00
0516.8302	830 Protective Leather Pouch			$30.00
0560.8351	835-T1 Industrial Infrared Thermometer -30 to +600°C	Gun Style High Temperature Infra-Red Thermometer With 4 Point Laser Guidance & K-Type Probe		$453.00
		Infra-Red -30 to +600C	±1,0 °C (+0,0 to +99,9°C) ±1% of mv (remaining range)	
0560.8352	835-T2 Industrial Infrared Thermometer -50 to +1500°C	Gun Style High Temperature Infra-Red Thermometer With 4 Point Laser Guidance & K-Type Probe		$909.00
		Infra-Red (-10 To 1500°C) K-Type T/C Probe (-50 To 1000°C)	±2°C ±0.5°C	
0563.8450	845 Gun Style I/R Industrial Thermo Hygrometer -35 to +950°C	Thermo Hygrometer + Aluminium Case 0 to 100%RH	±0.75%	$1,313.00
0563.8451		Meter + Aluminium Case & Built-In Humidity Probe 0 to 100%RH		$1,751.00

Temperature & Humidity Meters

Catalogue Ref No	Model	Description	Accuracy	Trade Price
0563.6251	625 -200 to +1370°C 0 to 100% RH	Compact Class Temperature & Humidity Measuring Instrument	±0.5°C	$436.00
0430.9725	Handle & Cable for probe Head			$158.00
0554.0190	Radio Module 915MHz upgrade			$79.00
0554.0191	RH Radio probe handle (refer pg 143 for further detail			$193.00
0560.6351	635-1 -200 to +1370°C 0 to 100% RH	Pro-Line Temperature & Humidity Measuring Instrument	±0.3%	$612.00
0563.6352	635-2 -200 to +1370°C 0 to 100% RH	Pro-Line Temperature & Humidity Measuring Instrument + USB Memory & Software		$874.00

635 series probes

Catalogue Ref No	Model/Description			Trade Price
0614.1635	Temperature probe for wall surfaces			$421.00
0636.6160	Material Moisture Probe			$634.00
0638.1835	Absolute Pressure Probe 2000hPa			$721.00
Note:	For Probe selection refer to page 141 & 142			
0563.6450	645 -200 to +1370°C 0 to 100% RH	Pro-Line Temperature & Humidity Measuring Instrument 2 Channel + USB Memory & Software	±0.3%	$1,539.00
Note:	For Probe selection refer to pages 154 & 155			

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Multifunction Instruments

	Catalogue Ref No	Model	Description	Trade Price
	0560.4351	435-1	Ventilation & Air Quality Instrument	$896.00
	0563.4352	435-2	Ventilation, Air Quality & Lux Instrument with Memory -200 To 1370°C 0 To 100% RH	$1,137.00
	0560.4353	435-3	Ventilation/Air Quality/Differential Pressure Instrument	$1,444.00
	0563.4354	435-4	Ventilation/Air Quality/Diff Pressure & Lux + Memory -200 To 1370°C 0 To 100% RH 0 To 60m/s 0 To 2000hPa (Abs) 0 To 10,000ppm CO2 0 To 25hPa (Diff)	$1,534.00

435 Series Probes

Catalogue Ref No	Description	Model				Trade Price
		435-1	435-2	435-3	435-4	
0632.1535	IAQ probe for the measurement of CO2, air temp, indoor air humidity & absolute pressure	✓	✓	✓	✓	$1,466.00
0635.1535	Thermal flow velocity probe with integrated temperature and air humidity measurement	✓	✓	✓	✓	$984.00
0635.9535	Vane Probe Air movement in A/C ducts (m/s) Telescopic 890mm x 16mm ø	✓	✓	✓	✓	$874.00
0635.9335	Vane Probe Air movement in A/C ducts (m/s) Telescopic 910mm x 60mm ø	✓	✓	✓	✓	$874.00
0635.1025	Hot Wire probe for Air movement & temperature Telescopic 820mm x 7.5mm ø	✓	✓	✓	✓	$546.00
0632.1235	Ambient CO probe	✓	✓	✓	✓	$809.00
0638.1835	Absolute Pressure probe	✓	✓	✓	✓	$721.00
0628.0109	Comfort probe for degree of turbulence measurement for the objective evaluation of the air velocity in a room		✓		✓	$1,532.00
0635.0545	Lux probe for the measurement of light intensity		✓		✓	$721.00
0614.1635	Temperature probe for determining U-value		✓		✓	$421.00
0636.9735	Humidity probe for air temperature & air humidity measurement		✓		✓	$638.00
	Integrated differential pressure measurement for flow velocity measurement with pitot tube & for monitoring filters (not retro-fittable)			✓	✓	
	Wirelss probe for air temperature & air humidity measurement		✓		✓	

Note: Please refer to pages 154 & 155 for K Type, T Type, NTC & Radio probes (156) also suitable for this instrument

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Testo 480 High-end Vac Measuring Instrument

Catalogue Ref No	Model	Description or RH+T	Trade Price
0563.4800	480	Professional Climate Kit Temperature Humidity, CO_2, Absolute Pressure -200 To 1370°C 700 To 1100hPa -25 To +25hPa Diff Absolute	$2,101.00

Testo 480 supports assessors, consultants, technical service providers or service technicians in the ventilation and air conditioning field. Measurement tasks such as the standardized adjustment of VAC systems in office, residential and industrial buildings can be carried out quickly and efficiently.
The 480 is a High-end VAC measuring instrument and includes "EasyClimate" PC software, power supply, USB cable and calibration protocol

480 Series Probes

Catalogue Ref No	Description	Trade Price
Digital Flow Velocity Probes		
0635.9542	Vane measurement probe ø 6mm with telescope (scaling max.960mm) & integrated measurement button*	$1,116.00
0635.1543	Thermal flow velocity probe (hot wire) ø 10mm, bendable by 90° (200mm) with telecope (scaling max 1100mm) & integrated measurement button*	$1,128.00
0635.1024	Thermal flow velocity probe (hot wire) ø 7.5mm, with telescope (max. 790mm) & fixed plug-in head cable	$970.00
0635.1050	Thermal flow velocity probe (robust hot bulb) ø 3mm, with telescope, (max. 860mm) & fixed plug-in head cable, for direction independent flow velocity measurement	$1,017.00
0635.9343	Vane measurement probe ø 100mm, for measurement on ventilation outlets*	$1,150.00
0635.1048	Thermal flow velocity probe (hot wire) ø 10mm, with telescope, (max. 730mm) & fixed plug-in head cable, for the measurement of air flow velocity in laboratory extractors according to EN 14175-3/4	$1,195.00
Digital Comfort Probes		
0636.9743	Humidity & Temperature probe ø 12mm, highly accurate humidity measurement with 1% accuracy*	$728.00
0632.1543	IAQ probe for analyzing indoor air quality, CO2, humidity, temperature & absolute pressure measurement, including table tripod*	$1,665.00
0628.0143	Comfort probe for degree of turbulence measurement according to EN 13779*	$1,354.00
0602.0743	Globe probe ø 150mm, TC Type K, for measuring radiant heat	$832.00
0635.0543	Lux probe for measuring light intensity	$676.00
0614.0073	High precision PT100 immersion & penetration probe*	$685.00
***Required with Probes**		
0430.0100	Testo 480 Plug-in connection cable 1.5m	$133.00

Note: Please refer to pages 154 & 155 for K Type probes and Pitot Tubes also suitable for this instrument

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AUCKLAND 09-579 1990	WELLINGTON 04-499 3591	CHRISTCHURCH 03-366 0017
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Air Quality

	Catalogue Ref No	Model	Description		Trade Price
	0632.3153	315-3	CO/CO2 measuring instrument without Bluetooth • Parallel and direct CO-/CO2 measurement • Convenient, easy handling		**$1,848**
	0632.3154	315-4	CO/CO2 measuring instrument with Bluetooth • Parallel and direct CO-/CO2 measurement • Convenient, easy handling • Can be used in combination with the testo 330-2 flue gas analyzer. The CO/CO2 readings can be transferred directly to the analyzer via Bluetooth.		**$2,035.00**
	0560.5350	535	CO2 measuring instrument with fixed probe incl. battery and calibration protocol • Long-term monitoring based on max & mean calculation • Long-term stable 2 channel infrared sensor • Highly accurate, highly efficient • Repeated calibration is unnecessary		**$979.00**

Testo 315-3 Accessories

	Catalogue Ref No		Description		Trade Price
	0636.9725		Temperature/Humidity Module		**$206.00**
	0554.1105		USB Mains unit including cable		**$78.00**
	0516.0223		TopSafe		**$107.00**

Pressure

	Catalogue Ref No	Model	Description		Trade Price
	0560.5126	512-1	Pressure Meter	0 to 2hPa	**$826.00**
	0560.5127	512-2	Differential Pressure Meter	0 to 20hPa	**$826.00**
	0560.5128	512-3	Air Pressure/Velocity Meter	0 to 200hPa	**$826.00**
	0560.5129	512-4	Air Pressure/Velocity Meter	0 to 2000hPa	**$826.00**
			8 switchable units: kPa, hPa, Pa, mm H2O, mmHg, psi, inch H2O, inch Hg		

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Flue Gas Analyser Set

	Catalogue Ref No	Model	Description	Available Options	Trade Price
	0563.3110	310 + I/R Printer + Intergated Probe	• O2, CO, CO2 • Draft & Pressure • Temperature (flue & ambient) • Combustion efficiency & excess air • Ambient CO		**From $1,492.00**
	0632.3220	320 Flue Gas Analyser With Graphic Display	• testo 320 flue gas analyzer, incl. O2 sensor, calibration protocol, graphic display • High-resolution graphic display • Sensor exchange by the user - no adjustment necessary • Fast and easy exchange of probes via the probe coupling. • Memory up to 500 measurement protcols • Sensor monitoring • Automatic zeroing of sensor • Lithium rechargeable battery - Operation with lithium rechargeable battery	•Bluetooth • COH2 • CO Low	**From $1,516.00**
	0632.3307	330-2L"Face Lift" Gas Analyser & Thermometer with Auto Probe Sensing Type K Thermocouple -40 to +1200°C	• Professional Flue Gas Analyser • Many measurement menus for analyses on heating systems, incl. solid fuel and gas pipe test menus • Integrated sensor monitoring • Dilution up to 30,000 ppm CO (testo 330-2 LL) • Zeroing in flue possible (testo 320-2 LL) • High-resolution colour graphic display • Automatic zeroing of sensor • Logger function (up to 2h continuous measurement value recording) • Robust design & Long Battery Life	•Bluetooth • COH2 • CO Low • NO	**From $3,367.00**

Testo 320 & 330 Compatible Probes

0600.9760		500°C 180mm		**$524.00**
0600.9761	Flue Gas Probe Modular	500°C 300mm		**$536.00**
0600.9762		1000°C 180mm		**$522.00**
0600.9763		1000°C 300mm		**$538.00**

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Gas & Combustion For Boilers, Furnaces & Heating Systems

	Catalogue Ref No	Model	Description	Trade Price
	0632.3340	340 Industrial Gas Combustion Analyser	• Automatic flow controlled sampling pump • Calibration records with sensor output/life graph • Integrated pressure sensor • 18 fuels, 10 user definable	From $1,952.00
	0632.3511	350XL Emission Analyser Instrument (Requires at least 1 Control Box)	• Easy access servicing • Thermally separated sensor chamber • Plug 'n' play smart sensors	From $1,883.00
	0632.3510	350XL Control Box (Up to 6 control boxes can work with 1 analyser instrument)	• Automatic flow controlled • Up to 6 sensors • Smart diagnostics • Bluetooth up to 100mtrs range • USB data interface	From $2,551.00

Gas Sensor Choices	340	350
NO_2 Sensor	✓	✓
SO_2 Sensor	✓	✓
CO low Sensor	✓	✓
NO low Sensor	✓	✓
NO Sensor	✓	✓
CO Sensor	✓	✓
CO_2 Sensor		✓
O_2 Sensor (standard)	✓	✓
CxHy sensor (Pellistor)		✓
H_2S Sensor		✓

Control Unit | HD Color Graphic Display | Analyzer Box

Filters can be easily exchanged without tools

Service opening with easy access to wearing parts

Continuous condensate drain-off for long term measurements

Control unit connections

410-1   410-2   460   510   511   540   606-1   606-2   610   810

Pocket Line Compact Professional Instruments

	Catalogue Ref No	Model	Description	Trade Price
	0560.4101	410-1	Air Flow & Temperature Meter	$205.00
	0560.4102	410-2	Air Flow, Temperature, Humidity	$319.00
	0560.0460	460	Optical RPM Meter	$294.00
	0563.0510	510	Differential Pressure ≤100hPa	$294.00
	0560.0511	511	Absolute Pressure ≤1200hPa	$340.00
	0560.0540	540	Lux Meter	$265.00
	0560.6060	606-1	Material Moisture Meter	$189.00
	0560.6062	606-2	Material Moisture & Humidity Meter	$340.00
	0560.0610	610	Humidity & Temperature Meter	$274.00
	0560.0810	810	IR & Ambient Temperature Meter	$160.00

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Sound Level Measurement

	Catalogue Ref No	Model	Description	Trade Price
	0563.8155	815	Decibel Meter With Max/Min Value Memory & Frequency Weighting	**$511.00**
	0563.8165	816	Decibel Instrument With Max/Min Value Memory & Frequency Weighting • Accuracy class 2 to IEC 60651 • Frequency weighting to characteristic A and C • Built-in tripod knuckle screw (¼ inch) • Switchable time weighting Fast/Slow • Automatic range switchover • Backlit display with bar graph • AC output for connecting recorders & amplifiers • DC output with 10 mV/dB to connect recorders or data loggers	**$855.00**
	0563.8170	816-1	testo 816-1, sound level meter • Integrated data storage for up to 31000 measurement values • Software for data management and long-term measurement • Switchable time weighting Fast/Slow • Bar graph display • Backlit display • AC and DC output for the connection of other instruments	**$1,074.00**

RPM Measurement

	Catalogue Ref No	Model	Description	Trade Price
	0563.0465	465	Non-Contact Optical RPM Instrument	**$431.00**
	0563.0470	470	Non-Contact Optical & Mechanical RPM Instrument	**$590.00**
	0554.0493		Reflectors For Optical RPM Instruments	**$44.00**

Anemometers

	Catalogue Ref No	Model	Description	Trade Price
	0560.4160	416	Anemometer + 16mm Ø Telescopic (890mm) Vane Probe	**$956.00**
	0560.4170	417	Anemometer + 100mm Ø Vane Probe	**$693.00**
	0563.4170	417 Funnel set	incl. 1x200mmx200mm & 1x330mmx330mm	**$349.00**
	0560.4251	425	Anemometer & Temperature + Thermal Probe, Telescopic (820mm) Handle	**$890.00**
	0560.4053	405	Thermal Anemometer	**$199.00**

K Type Thermocouple Probes

Catalogue Ref No	Description	Range	Trade Price
0602.4692	Clamp Probe For Measurements On Pipes 15 To 25mm Ø	-50 To +100°C	$130.00
0628.0020	Pipe Wrap Probe With Velcro For Temp Measure On Pipes ≤120mm Ø	Max 120°C	$86.00
0628.1292	Robust Waterproof "Needle"" Oven Probe"	-50 To +230°C	$187.00
0628.0026*	Super Fast Waterproof	-50 To +250°C	$220.00
0602.4592	Pipe Wrap Probe ≤65mm	-60 To +130°C	$257.00
0602.0092	Pipe Wrap Probe Spare Measurement Head Only		$99.00
0602.1293	Waterproof Immersion/ Penetration Probe	-60 To +400°C	$84.00
0602.2292	Waterproof Stainless Steel Food Probe IP65		$152.00
0602.1793	Robust Air Probe		$119.00
0602.1993	Waterproof Probe with widened Head for measuring smooth surfaces		$119.00
0602.2693	Super Fast Action W/proof Immersion/Penetration Probe	-60 To +800°C	$233.00
0602.0593	Fast Action Waterproof Immersion/Penetration Probe	-60 To +1000°C	$191.00
0602.0693	Waterproof Surface Probe. Small Measuring Head		$220.00
0602.5792	Immersion Measurement Tip Bendable With Adaptor	-200 To +1000°C	$55.00

T Type Thermocouple Probes

Catalogue Ref No	Description	Range	Trade Price
0603.2693*	Waterproof Precision "Penetration ""Needle""	-50 To +250°C	$312.00
0628.0027*	Super Fast Waterproof "Penetration ""Needle""		$222.00
0628.0030	Super Fast Penetration"Needle"" Oven Probe"		$200.00
0603.1993	Waterproof Probe with widened Head for measuring smooth surfaces		$125.00
0603.1293	Waterproof Immersion/ Penetration Probe		$86.00
0603.2492	Handle & Reinforced Cable IP65		$195.00
0603.2192	Stainless Steel Food Probe PUR Cable IP67		$158.00
0603.3292	Frozen Food Probe Cork Screw Type	-50 To +350°C	$268.00
0603.3392	Stainless Steel Food Probe Teflon Cable IP67		$228.00
0628.0023	Measurement Tip With T/C Adaptor		$108.00
0603.1793	Robust Air Probe		$125.00

*Note: Recommended for hamburgers, steaks, pizza, eggs etc. Testo probes may be suitable for use with more than one model of instrument. Please refer to catalogue data for more information on Testo probes.

PT100 Probes

Catalogue Ref No	Description	Range	Trade Price
0614.0235	Hi-Accuracy Waterproof Immersion/Penetration Probe	-40 To +300°C	**$804.00**
0609.1973	Waterproof Surface Probe		**$220.00**
0609.1273	Robust Waterproof Immersion/Penetration Probe		**$154.00**
0609.7072	Laboratory Probe Glass Coated Replaceable Glass Shaft Resistant To Corrosive Substances	-50 To +400°C	**$217.00**
0609.2272	Robust Waterproof Stainless Steel Probe IP65		**$276.00**
0609.1773	Robust Air Probe		**$171.00**

NTC Probes

Catalogue Ref No	Description	Range	Trade Price
0613.4611	Pipe Wrap Probe ≤75mm	-50 To +70°C	**$165.00**
0613.1712	Robust Air Probe	-50 To +125°C	**$143.00**
0613.2411	Robust Waterproof Penetration Food Probe	-25 To +150°C	**$202.00**
0613.1912	Waterproof Surface Probe		**$160.00**
0613.1212	Waterproof Immersion/Penetration Probe	-50 To +150°C	**$138.00**
0613.2211	Waterproof Food Probe Stainless Steel IP65		**$209.00**
0613.3311	Waterproof Stainless Steel Probe Teflon Cable IP67		**$252.00**

Pitot Tubes

Catalogue Ref No	Description	Range	Trade Price
0635.2145	SS Pitot Tube (Velocity) 350mm		**$222.00**
0635.2045	SS Pitot Tube (Velocity) 500mm		**$252.00**
0635.2345	SS Pitot Tube (Velocity) 1000mm		**$631.00**

RH+T & Dew Point Probes

Catalogue Ref No	Description	Compatible with	Trade Price
0636.9735	Humidity/Temperature probe Ø 12mm		**$638.00**
0636.2161	High Temp humidity probe		**$1,023.00**
0636.2135	Thin humidity probe Ø 04mm	Testo 635	**$811.00**
0636.9835	Standard Dewpoint Probe		**$1,575.00**
0636.9836	Precision Pressure Dewpoint probe for comp air -60°C		**$2,101.00**
0636.2142	Meteorological Humidity Probe Digital		**$1,773.00**
0628.0021	High Temp Probe 180°C RH%		**$2,057.00**
0636.0340	Sword Probe for Temp/RH	Testo 645	**$1,472.00**
0636.2140	Robust humidity probe -20 to +120°C		**$1,291.00**
0636.9840	Standard Dewpoint Probe		**$2,846.00**
0636.9841	Precision pressure dewpoint probe		**$3,415.00**

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Radio Probes compatible with testo series 110,735,922,925,926,635

Radio probes for immersion/penetration measurements

	Catalogue Ref No	Description	Range	Accuracy	Resolution	Trade Price
	0613.1002	Radio immersion/penetration probe, NTC, approval for USA, CA, CL; Radio freq. 915.00 MHz FSK	-50 to +275°C	±0.5°C (-20 to +80°C) ±0.8°C (-50 to -20.1°C) ±0.8°C (+80.1 to +200°C) ±1.5°C (remaning range)	0.1°C	$261.00

Radio handles with probe head for surface measurement

	Catalogue Ref No	Description	Range	Accuracy	Resolution	Trade Price
	0602.0394	T/C Probe Head for surface measurement. attachable to radio handle, t/c Type K	-50 to +350°C Short term to +500°C	Radio Handle: ±(0.5°C +0.3% of mv) (-40 to +500°C) ±(0.7°C +0.5% of mv) (remaining range) T/C probe head: Class 2	0.1°C (-50 to +199.9°C) 1.0°C (remaining range)	$130.00

Radio Handles for attachable T/C Probes

	Catalogue Ref No	Description	Range	Accuracy	Resolution	Trade Price
	0554.0191	Radio Handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL; Radio freq. 915.00 MHz FSK		±(0.7°C +0.3% of mv) (-40 to +900°C) ±(0.9°C +0.3% of mv) (remaning range)	0.1°C (-50 to +199.9°C) 1.0°C (remaining range)	$193.00

915MHz Radio Module for the above

	Catalogue Ref No	Description				Trade Price
	0554.0190	Radio Module 915MHz				$79.00

Custom Probes

	Catalogue Ref No	Description	Probe	Cable	Detail	Trade Price
	TS419-5MT	T Type Thermocouple	4mm x 50mm	5m	Miniplug and Strain Relief	$130.00
	TS419-10MT			10m		$160.00
	TS419-20MT			20m		$199.00
	TS429	K Type TC Binder Probe	70mm x 3mm Rounded Tip	2m		$160.00
	TS305	T Type TC Oven/Chill Insertion Probe	150mm x 4mm	2m		$131.00
	TS305-10MT			10m		$215.00
	TS159	Glycol Filled Temperature Probe T Type T/C	-	2m		$185.00
	TS159-5MT		-	5m		$180.00
	TS159-10MT		-	10m		$194.00

Probes can be made to suit your specific application. Contact your Eurotec I&m Sales Engineer to discuss further

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Visual & Audio Warning Beacons & Towers

Series 180 Beacons

- Minimum Complete Assembly = Terminal Unit + Indicators + Cover + LED's
- Standardised LED Bulbs Across The Range
- 60mm Ø, Modular Warning Tower - IP54 (to EN 60529)
- Ambient Operating Temperature -20° to +40°C
- Light Source = BA15d (23 x 47mm) Multi LED Bulb
- Material = Polycarbonate (Extension Pole Aluminium)
- Max Cable Size = 1.5mm²
- Double Insulated (Plastic Conmponents); Class II In Accordance With IEC536
- Standards: Electromagnetic Compatibility   EEC 89/336
  European Compliance   EN 60947-5-1
  Low Voltage   EEC 2006/95
  EEC 94/68
  Vibration   2g/min EN 60068-2-6
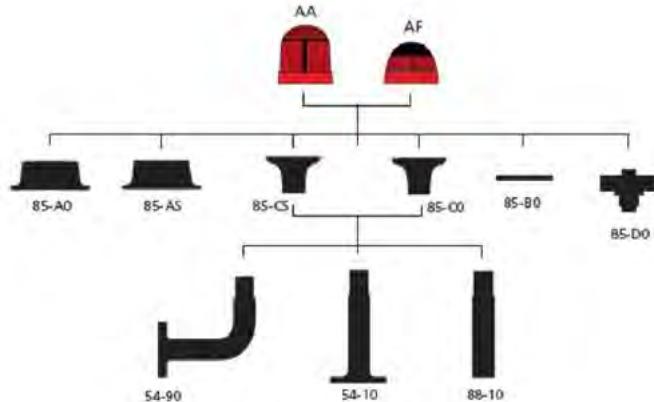
Series 370 Towers

- Minimum Complete Assembly = Terminal Unit + Indicators + Cover + LED's
- Audio Modules Come Complete With Cap & Must Be The Top Mounted Module
- 70mm Ø, Modular Warning Tower - IP64 (to EN60529)
- Light Source = BA15d (23 x 47mm) Multi LED Bulb
- Material = Polycarbonate (Extension Pole Aluminium)
- Max Number Of Modules = 7 (Except Single Beacon Type = 2 Modules)
- Max Cable Size = 1.5mm²
- Double Insulated (Plastic Conmponents); Class II In Accordance With IEC536
- Standards: Electromagnetic Compatibility   EEC 89/336
  European Compliance   EN 60947-5-1
  Low Voltage   EEC 73/23
  EEC 94/68
  Vibration   2g/min EN 60068-2-6
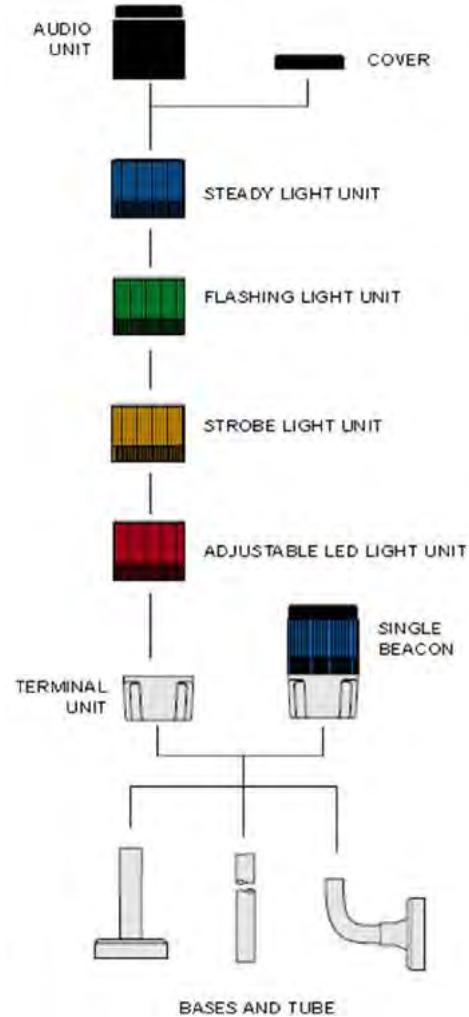
Series 180 Single Modular Visual & Audio Beacons IP54 - 70(h) x 62mm Ø

	Catalogue Ref No	Description	Voltage	Colour	Trade Price
	B180-AA12424+	Steady (Non-Flashing) Indicator Integrated Multiple LED Ba15d Bulb Included Standard Mounting Base Included	24V AC/DC	Red	**$100.00**
	B180-AA13424+			Orange	**$100.00**
	B180-AA14424+			Yellow	**$100.00**
	B180-AA15424+			Green	**$100.00**
	B180-AA16424+			Blue	**$100.00**
	B180-AA19424+			Clear	**$100.00**
	B180-AA12430+	Steady (Non-Flashing) Indicator Integrated Multiple LED Ba15d Bulb Included Standard Mounting Base Included	230V AC	Red	**$100.00**
	B180-AA13430+			Orange	**$100.00**
	B180-AA14430+			Yellow	**$100.00**
	B180-AA15430+			Green	**$100.00**
	B180-AA16430+			Blue	**$100.00**
	B180-AA19430+			Clear	**$100.00**
	B180-AA22424+	Steady Or Flashing Indicator Integrated Multiple LED Ba15d Bulb Included Standard Mounting Base Included	24V AC/DC	Red	**$126.00**
	B180-AA23424+			Orange	**$126.00**
	B180-AA24424+			Yellow	**$126.00**
	B180-AA25424+			Green	**$126.00**
	B180-AA26424+			Blue	**$126.00**
	B180-AA29424+			Clear	**$126.00**
	B180-AA22430+	Steady Or Flashing Indicator Integrated Multiple LED Ba15d Bulb Included Standard Mounting Base Included	230V AC	Red	**$126.00**
	B180-AA23430+			Orange	**$126.00**
	B180-AA24430+			Yellow	**$126.00**
	B180-AA25430+			Green	**$126.00**
	B180-AA26430+			Blue	**$126.00**
	B180-AA29430+			Clear	**$126.00**
	B180-AA42ABL+	Steady Or Flashing Indicator + Audio 80dB 84 flashes/min (1.4Hz) EN 60073 5 Individual LED Bulbs (Permanent) Standard Audio Base Included	24V AC/DC	Red	**$195.00**
	B180-AA43ABL+			Orange	**$195.00**
	B180-AA44ABL+			Yellow	**$195.00**
	B180-AA45ABL+			Green	**$195.00**
	B180-AA46ABL+			Blue	**$195.00**
	B180-AA49ABL+			Clear	**$195.00**

Note: Units with integrated audio sounders are 90mm in height, 85mm across the base…

Texelco 180 Series warning devices are available in a range of colours and mounting options. Mounting accessories are shown in overleaf.

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Series 180 Mounting Accessories

	Catalogue Ref No	Description	Colour	Trade Price
	B180-T370-54-10	Base (Ø 70mm) With Tube L = 100mm		**$22.00**
	B180-T370-54-90	Bracket - Wall Mounting 90°		**$31.00**
	B180-85-A0	Deep Base For 180 Series Beacons		**$15.00**
	B180-85-AS	Deep Base For 180 Series - Audio Devices	Black	**$15.00**
	B180-85-B0	Flat Base For 180 Series Beacons Only		**$15.00**
	B180-85-C0	Conduit Adaptor For 180 Series Beacons Only		**$15.00**
	B180-85CS	Conduit Adaptor For 180 Series Audio Devices		**$15.00**
	B180-85-D0	Bracket 22mm Ø Base Mounting For 180 Series - Beacons		**$18.00**
	B180-85-DS	Bracket 22mm Ø Base Mounting For 180 Series - Audio		**$18.00**
	B180-T370-88-10	Extension Tube L = 100mm		**$10.00**
	B180-T370-88A22	Bracket 22mm Ø P->S Base Adaptor Black Aluminium		**$41.00**
	B180-T370-55P62	Bracket Assembly - Wall Mounting		**$31.00**
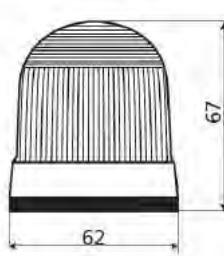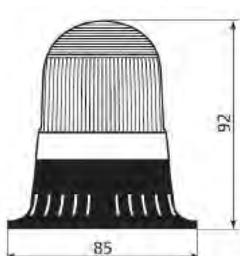
85-B0 AA   **85-BS AA**   **85-D0 AA**   **85-CS AA**
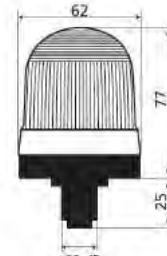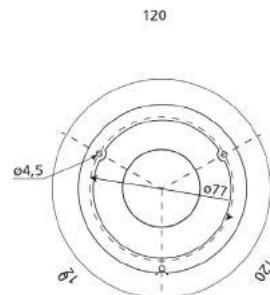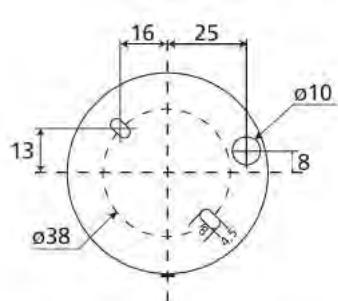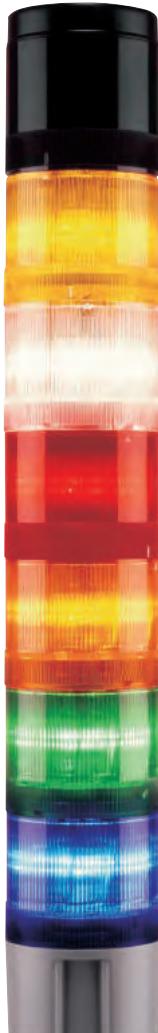
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The Series 370 towers can have up to 7 modules in total. Each indicator can be steady, flashing or programmable. One audio unit can be added, which is supplied complete with the top sealing cap. The tower can be directly mounted through the wiring base or mounted on a range of base accessories or straight or angled conduit entries.

Series 370 Multiple Modular Visual & Audio Indicators IP54/64 - 70mm Ø

Catalogue Ref No 230V AC	24V AC/DC	Description	Colour	Trade Price
T370-12-4G	T370-12-4B	Steady (Non-Flashing) Indicator Integrated Multiple LED Ba15d Bulb Included	Red	$66.00
T370-13-4G	T370-13-4B		Orange	$66.00
T370-14-4G	T370-14-4B		Yellow	$66.00
T370-15-4G	T370-15-4B		Green	$66.00
T370-16-4G	T370-16-4B		Blue	$66.00
T370-19-4G	T370-19-4B		White	$66.00
T370-22-4G	T370-22-4B	Flashing Indicator - 84 Flashes/Min (1.4Hz) EN 60073 Integrated Multiple LED Ba15d Bulb Included	Red	$133.00
T370-23-4G	T370-23-4B		Orange	$133.00
T370-24-4G	T370-24-4B		Yellow	$133.00
T370-25-4G	T370-25-4B		Green	$133.00
T370-26-4G	T370-26-4B		Blue	$133.00
T370-29-4G	T370-29-4B		White	$133.00
-	T370-42-KB	Steady Or Flashing Indicator - 84 Flashes/Min (1.4Hz) EN 60073 Integrated Multiple LED Ba15d Bulb Included	Red	$143.00
-	T370-43-KB		Orange	$143.00
-	T370-44-KB		Yellow	$143.00
-	T370-45-KB		Green	$143.00
-	T370-46-KB		Blue	$143.00
-	T370-49-KB		White	$143.00
-	T370-42-24	Multifunction (Programmable) Indicator Steady, flashing or rotating light 27 Integrated LED Bulbs Included	Red	$280.00
-	T370-43-24		Orange	$280.00
-	T370-44-24		Yellow	$280.00
-	T370-45-H4		Green	$280.00
-	T370-46-H4		Blue	$280.00
-	T370-49-H4		White	$280.00
T370-73-30	-	Audio Module c/w Lid	IP54	95dB	Intermittent Only		$136.00
-	T370-73-24			100dB		Black	$136.00
T370-75-30	-			95dB	Constant		$193.00
-	T370-75-24			100dB	/Intermittent		$193.00
-	T370-75-MB			90dB	16 Sounds		$182.00
T370-90-02		Wiring Unit c/w Terminals & Cover					$47.00

Series 370 Standalone Audio Sounders Complete

-	T370-97324	Audio Sounder c/w Lid & Base	IP54	90dB	Constant		$156.00
T370-97530	-			95dB	Constant	Black	$261.00
-	T370-97524			100dB	/Intermittent		$226.00
-	T370-975MB			90dB	16 Sounds		$216.00

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Series 370 Mounting Accessories

	Catalogue Ref No		Description	Colour	Trade Price
	24V ACDC	230V AC			
	B180-T370-54-10		Base (Ø 70mm) With Tube L = 100mm	Black	$22.00
	B180-T370-54-90		Bracket (Ø 70mm) - Wall Mounting 90°		$31.00
	B180-T370-88-10		Extension Tube L = 100mm		$10.00
	B180-T370-88A22		Bracket 22mm Ø Aluminium Base Adaptor		$41.00

Series 180 & Series 370 LED Bulbs

			Description	Colour	Trade Price
	11EBx2	11EGx2		Red	$36.00
	11EBx4	11EGx4	BA15d LED Bulb	Yellow	$36.00
	11EBx5	11EGx5	10 Front & Side Focused LED's	Green	$36.00
	11EBx6	11EGx6	Colour match to indicator lens (see chart below)	Blue	$36.00
	11EBx9	11EGx9		White	$36.00

Lens/Lamp Colour Matching

Lens
Red
Yellow
Orange
Green
Blue
Clear
White

Bulb
Red
Yellow
Green
Blue
White

Multicolour LED Warning Beacons / 22mm LED Warning Lights & Sounders

Multicolour

• 3 Colours, 1 lens unit, 1 integrated LED Lamp
• Integrated Sounder (Optional)
• Low Current Consumption
• Compact Installtaion

Multicolour LED Warning Beacons Complete IP64

	Catalogue Ref No	Description	Voltage	Colours	Trade Price
	94T5B 532	Beacon Tricolour	24VDC	Green / Amber / Red	$335.00
	94T7B 532	Beacon Tricolour + Sounder 85dB			$385.00
	94Q1B	Beacon Quadcolour		Blue / Green / Amber / Red	$414.00
	94Q7B	Beacon Quadcolour + Sounder 85dB			$479.00

22mm Push Button Style LED Warning Lights & Sounders

		Description	Voltage	Colour	Trade Price
	ECX2071-24R	22mm Push Button Style Indicator + Sounder	24VAC/DC	Red	$27.00
	ECX2071-230R		230VAC		$37.00

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Series 600 Rotating Beacon 200(h) x 150mm Ø

Catalogue Ref No		Description	Colour	Trade Price
24 VAC/VDC	**230V AC**			
RB-LA52-4B	-		Red	**$408.00**
RB-LA53-4B	-		Orange	**$408.00**
RB-LA54-4B	-	Rotating Beacon Multichip LED bulb included	Yellow	**$408.00**
RB-LA55-4B	-		Green	**$408.00**
RB-LA56-4B	-		Blue	**$408.00**
RB-LA59-4B	-		Clear	**$408.00**

ø150mm

3 x ø6.5 equi-spaced on 130 PCD

205mm

20mm

M20 conduit knockout
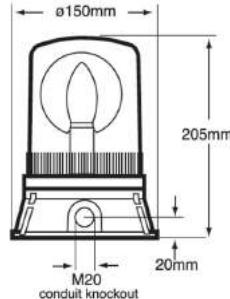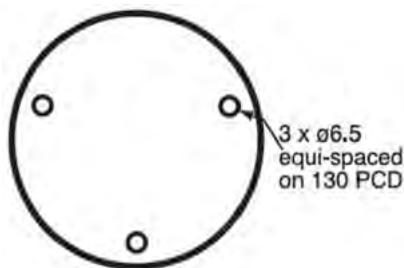
S600 Series Flashing Beacons

Catalogue Ref No	Description	Voltage	Colour	Trade Price
S600-LL22-4B		24VAC/DC.	Red	**$408.00**
S600-LL22-4G	Flashing Beacon, 115mm x 250mm, LED	230VAC	Red	**$408.00**
S600-LL23-4B	Bulb included.	24VAC/DC.	Orange	**$408.00**
S600-LL23-4G		230VAC	Orange	**$408.00**

Ultra bright LED lamp

Equipped with Fresnel lens top to improve brightness

Low consumption, controlled via remote source (PLC, control panel, etc)

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28mm Panel Mount Buzzers

	Catalogue Ref No	Description	Voltage	Colour	Trade Price
	ECX28100A	Audio signal device for panel mounting	12VDC(ac)		$34.00
	ECX28100B	(28mm) pulse or continuous audio signal	24VDC(ac)	Black	$34.00
	ECX32100A	IP20, 95dB	10-28VDC		$37.00

Buzzer, Surface mount 55mm Diameter

	Catalogue Ref No	Description	Voltage	Colour	Trade Price
	ECX55C100B	Continuous Sound 100dB, IP54	24VDC(ac)	Black	$41.00
	ECX55P100B	Pulse Sound, 100 Db, IP54	24VDC(ac)		$41.00

Compact Electronic Sounders

	Catalogue Ref No	Description	Voltage	Colour	Trade Price
	ECX101K	Electronic Sounder 100dB, 28 tones, IP65 12/24 V DC, ma 32 mA	12/24VDC	Red	$140.00
	ECX101W	Electronic Sounder 100 Db, 8 tones, IP 65 100/260 V AC, max 32mA	230VAC	Red	$190.00
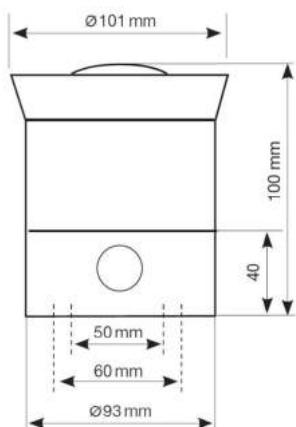
Audio/Visual Indication To EN 981

Visual		Audio	
Colour	Meaning	Characteristics	Configuration of time
RED	DANGER Urgent intervention to save or protect	-With variable frequency -Series of sounds -Alternate tone (two or three frequency intervals	- ON/OFF, continuous or alternating - ON/OFF, alternating - ON/OFF, continuous or alternating
Yellow / Orange Orange	ATTENTION Intervention when necessary	One sound only with a constant spectrum, minimum duration: 0.3s	-Alternating ON/OFF, which must be clearly different from ""EMERGENCY EVACUATION" "Max 2 different ""ON"" segment lengths can be in" the configuration; the first one is to be long
Blue	COMMAND Compulsory intervention required	-Two or three different sounds, each of them with a constant spectrum	-ON/OFF, continuous or alternating
White / Clear	ANNOUNCEMENT / INFORMATION Instruction to the public	-Ringing tone consisting of two tones	-Non-repetitive high-low (followed by instructions)
Green	END OF ALARM Situation: Out of danger	-Sound with consistent spectrum	-Continuous, at least 30s - Signal which follows one previous alarm signal

Process Condition Indicator Colours To EN 60073

Colour	Meaning	Explanation	Operator Actions	Application
RED	Emergency	Dangerous conditions	Immediate action to deal with a dangerous condition by, eg; - Activate emergny stop - Opening safety valve - Start cooling pump	-Pressure/temperature out of safe limits -Voltage drop -Breakdown of a "main"" unit" -Breakdown of critical control systems -Freezer temperature too high -Stop position over travel on a hoist
Yellow / Orange Orange	Unusual Conditions	Abnormal conditions Impending critical condition	Monitoring and/or inter-vention (reset intended function)	-Pressure/temperature different from normal levels -Tripping of a protective device or auxiliary unit -Conveyor overload -Over travel of a limit switch -Position change of a valve or convey-or belt -Freezer on "super" freeze
Green	Normal	Normal conditions	Optional	-Authorisation to proceed -Indication of normal working limits
Blue	Mandatory	Indication of a condition that requires action	Mandatory actiuon	Instruction to operator to enter preselected values
White / Clear	No specific meaning as-signed	Any meaning; may be used whenever doubt exists about the application of Red, Yellow, Green, Blue	Mandatory actiuon	Instruction to operator to enter preselected

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Process Controls For Temperature And Pressure

- ¤ Thermostats (single & two stage) for wall, pipe & sur face mtg
- ¤ HVAC thermostats
- ¤ Pressure switches
- ¤ Pressure transmitters

Thermostats - Single Stage

	Catalogue Ref No	Description	IP Rating	Set Point	Temperature Range	Temperature Differential	Trade Price
	A33	Ambistat Single Stage Room Thermostat	IP54	External	0 To +30°C	+0.7 To +6°C	$322.00
	A60			External	0 To +60°C		$322.00
	AS30			Internal	0 To +30°C		$303.00
	AS33			Internal	-30 To +30°C		$303.00
	AS40			Internal	+10 To +40°C		$303.00
	AS60			Internal	0 To +60°C		$303.00
	IS95	Industat Capillary T'stat 2m	IP65	Internal	+5 To +95°C	+2 To +12°C	$461.00
	M40	Ministat Capillary Thermostat 2m Capillary	IP54	External	-30 To +40°C	0.7 To +10°C	$397.00
	M95			External	+5 To +95°C	+2 To +12°C	$397.00
	MS40			Internal	-30 To +40°C	0.7 To +10°C	$362.00
	MS95			Internal	+5 To +95°C	+2 To +12°C	$362.00
	MS150			Internal	+20 To +150°C	+2.5 To +16°C	$362.00
	MS230S			Internal	+20 To +230°C	+3 To +32°C	$398.00
	MS350S			Internal	+70 To +350°C	+4 To +40°C	$398.00
	MSP35	Pipe Mtg T'stat	IP54	Internal	-10 To +35°C	3.7 To +14°C	$363.00
	MSP95			Internal	+5 To +95°C		$363.00
	MST8015	Ministat Capillary Thermostat c/w Pocket	IP54	Internal	-10 To +80°C	+2 To +12°C	$437.00
	MST9515			Internal	+5 To +95°C		$437.00
	MST15015			Internal	+20 To +150°C	+2.5 To +16°C	$437.00
	MST15040			Internal			$504.00
Note:		MST15015 = 150mm probe / MST15040 = 400mm probe					
	MSK35	Duct Thermostat	IP54	Internal	0 To +35°C	0.7 To +10°C	$397.00
	MSK40			Internal	-30 To +40°C		$397.00
	MSK80			Internal	+10 To +80°C		$397.00

Thermostats - Two Stage

	Catalogue Ref No	Description	IP Rating	Set Point	Temperature Range	Temperature Differential	Trade Price
	A2S30	Altero-Ambistat 2 Stage Room Thermostat	IP65	Internal	0 To +30°C	1.8°C*	$506.00
	A2S33			Internal	-30 To +30°C		$506.00
	A2S60			Internal	0 To +60°C		$506.00
Note:		Smallest stage differential 1°C / Largest stage differential 15°C					

HVAC Thermostats

	Catalogue Ref No	Description	IP Rating	Set Point	Temperature		Trade Price
					Range	Differential	
	M2S35				0 To +35°C		$519.00
	M2S40	Alterostat HVAC 2 Stage Controller - Capillary	IP54	Internal	-30 To +40°C	1.8°C	$519.00
	M2S95				+5 To +95°C	2.5°C	$519.00
	M2S150				+20 To +150°C	1.5°C	$519.00
	ADS30	Duostat HVAC Double Thermostat - Single Housing	IP54	Internal	0 To +30°C	+0.7 To +6°C	$727.00
	ADS60				0 To +60°C		$727.00
	F15	Frostat c/w 6m Capillary	IP54	Internal	-5 To +15°C	+2 ±1°C	$465.00

HVAC Thermostats

	Catalogue Ref No	Description	IP Rating	Set Point	Range	Differential	Trade Price
	AS60R	Ambi Limistat			0 To +60°C	+0.7 To +6°C	$305.00
	MS95R				+5 To +95°C	2 To +12°C	$394.00
	MS150R	Mini-Limistat 2m Capillary	IP54	Internal	+20 To +150°C	2.5 To +16°C	$414.00
	MS230SR				+20 To +230°C	3 To +32°C	$465.00
	MS350SR				+70 To +350°C	4 To +40°C	$465.00
	MSP95R	Pipe Mounting Limistat			+5 To +95°C	3.7 To +14°C	$395.00
	MSK80R	Duct Limistat			+10 To +80°C	+0.7 To +10°C	$423.00

Thermostat Accessories

	Catalogue Ref No	Description	For Thermostats…	Diameter	Length	Trade Price
	83160110K				110mm	$88.00
	83160150K				150mm	$88.00
	83160200K	Thermostat Pocket Only Brass Nickel Plated	M / MS / M2S / IS	10mm Ø	200mm	$88.00
	83160400K				400mm	$88.00
	83180150K		D…R	14mm Ø	150mm	$133.00
	84110110K	T'stat Pocket Only SS316	M / MS / M2S / IS	10mm Ø	110mm	$226.00
	84110200K		IS		200mm	$226.00
	K200	Sensor Duct Holder (Support) For MS / M2S / M4S				$36.00
	W200	Sensor Wall Holder (Support) For MS / M2S / M4S				$42.00

Set Point	The target value that a thermostat is set to
Differential	"The temperature change or ""differential"" between the LOW and HIGH settings"
Dead Zone	The difference between the set point and the point where the heating or cooling is turned on

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"Pressure Switches (G1/4"" Female Connection) IP65"

Catalogue Ref No	Description	Pressure Range	Pressure Differential	Trade Price
P1.5		-0.9 To +1.5 bar	+0.1 bar	$680.00
P2.5		+0.2 To +2.5 bar	+0.1 bar	$621.00
P4		0 To +4 bar	+0.2 bar	$496.00
P6		0 To +6 bar	+0.2 bar	$496.00
P10	Pressostat	+1 To +10 bar	+0.4 bar	$496.00
P16		+1 To +16 bar	+0.4 bar	$496.00
P25		+2 To +25 bar	+1 bar	$496.00
P40		+4 To +40bar	+1 bar	$496.00
PK100		+10 To +100 bar	+1 bar	$649.00
PD3.4	Differential Pressostat	-1 To +6 bar	+0.16 bar	$1,068.00
PD6		-1 To +8 bar		$1,058.00
PV6		0 To +6 bar	0.4 To +3.2 bar	$633.00
PV16	Vari Pressostat	+1 To +16 bar	+1 To +7.5 bar	$633.00
PVF6		0 To +6 bar	0 To +6 bar	$805.00
PVF16		+1 To +16 bar	+1 To +16 bar	$805.00

"Pressure Transmitters - 4...20mA Output (G1/4"" Male Connection) IP65"

Catalogue Ref No	Description	Pressure Range	Maximum Over Pressure	Trade Price
NAT2.5A		0 To +2.5 bar	+5 bar	$552.00
NAT4.0A		0 To +4 bar	+8 bar	$552.00
NAT6.0A		0 To +6 bar	+12 bar	$552.00
NAT10.0A	Industrial Pressure Transmitter (Completely Welded Steel)	0 To +10 bar	+20 bar	$552.00
NAT16.0A		0 To +16 bar	+32 bar	$552.00
NAT25.0A		0 To +25 bar	+50 bar	$552.00
NAT40.0A		0 To +40bar	+80 bar	$552.00

Pressure Conversion

Bar	PSI	kPA
1 bar = 14.5 psi / 100 kpa / 750mm hg / 29.53 in. of mercury	1 PSI = 6.895 kPA / 51.71mm Hg / 2.036 in. of mercury / 0.069 bar	1 kPA = 0.01 bar / 0.145 psi / 7.5188mm Hg / 0.2953 in. Of of mercury

Trust | SMART Home

RF Remote Control & Automation System

- Smart phone control of home automation components
- Remote control of lights (on/off + dimming) and appliances
- Wired in or wireless receivers
- Motion (passive infra red) & daylight (photo-electric) sensors
- Magnetic security sensors

Trust, turning a house into a smart home.

Wireless Automation Control

	Catalogue Ref No	Description	Format		Trade Price
	ICS-2000	Internet Control Station Home Automation Controller - PC & Smart Phone Accessible	Programable Control Module - Remote Web Access & iPhone/ Andoid App	Controls up to 256 lights, devices & Alert system	$229.00
				Remote access to Trust Receivers from anywhere in the world	

Control your Smart Home from anywhere in the world!

Internet Control Station. This is the hub of the system and is the ideal solution to wirelessly control and monitor your home for ultimate comfort and security via your phone or tablet whether you are home or away.

Download on the App Store
GET IT ON Google Play

Features:

- Control up to 256 lights and devices with your smartphone or tablet
- Monitor your home with sensors and get push notifications on your smartphone/tablet
- Free app available for iPad, iPhone and Android tablet and smartphone
- Every family member can connect their mobile device
- Program timers for devices/scenes (including sunrise/sunset recognition)

SMART LIGHT CONTROL
Control up to 256 lights and devices with your smartphone or tablet.

COMPATIBLE
Compatible with all iOS 6+ / Android 2.3+, smartphones/ tablets.

HOME MONITORING
Monitor your home with sensors and get push notifications on your smartphone/tablet.

PROGRAM TIMERS
Program timers for devices/ scenes (including sunrise/ sunset recognition).

SECURE COMMUNICATION
Safe encrypted communication using AES-128 and SSL.

AUTOMATE SCENARIOS
Automate your lights, screens, etc by using the intuitive rules editor
(IFTTT editor)

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'Alert' Security System

	Catalogue Ref No	Description	Format	Function	Trade Price
	ALSIR-2000		Outdoor siren/ warning light for Trust Alert System		$139.00
	ALMST-2000		Magnetic door/window sensor for Trust Alert System		$71.00
	ALMDT-2000	Security System	Motion sensor for Trust Alert System	Wireless Security	$92.00
	ALKCT-2000		Remote Control for Trust Alert System		$69.00
	ALSET-2000		Wireless Security System - Incl Siren, Door Sensor, Motion sensor & Remote		$345.00
	IPCAM-2000		Wifi IP Camera with Night Vision		$131.00

Key Features:

- **The First Line of Home Protection starts with Trust Smart Home Alert system**

- No payment of monthly fees required
- The included sensors alert you, via the loud siren, when a door or window is opened or when motion is detected
- The remote control can easily arm/disarm your system
- You can simply add more sensors and/or remote controls if desired (max. 16 devices can be used in combination with the siren)
- The alert system can be used autonomously or in combination with the ICS-2000
- By combining this kit with the ICS-2000 Internet Control Station, you can arm/disarm your alarm via your tablet and/or smartphone and receive push notifications when you are not at home
- The siren can be placed at any indoor or outdoor location (IP44 water resistant)
- Anti-tamper system: the siren will be activated when any sensor is removed or opened
- Secure 2-way communication at 868Mhz (no WiFi interface) with an outdoor range up to 70 meter and outdoor range up to 120 meter.

OPTIONAL

Arm/disarm alarm system

Push notification when siren is activated

Arm/disarm alarm system

Siren sends signal when activated

Arm/disarm alarm system

Sensor activates siren when movement/motion is detected

Alarm will be activated if one of the sensors is triggered

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Transmitters

	Catalogue Ref No	Description	Format		Function	Trade Price
	AWST-8800	RF Transmitters	Wall Switch Flush/ Surface Mounting	Single + Delay Timer	On / Off + Dimming	$45.00
	AWST-8802			Double		$47.00
	AGST-8800		Wall Switch Flush/ Surface Mounting	Single		$43.00
	AGST-8802		Waterproof IP44	Double		$46.00
	AWMT-003		Mini Transmitter (Use With Std NZ Wall Switches)	Battery Pwrd	On / Off	$59.00
	AWMT-230			Use with existing circuit		$59.00
	AYCT-102		Hand Held Remote 16 Channels (Indoor Range ≤30m)	Tuning Auto (New) Man (Old)	On / Off + Dimming	$39.00
	AYCT-202		Wall mount remote control 4-Channel with Direct Dimming (Indoor Range ≤30m)			$56.00
	AKCT-510		Key Chain Remote Control (Outdoor Range ≤70m)		On / Off	$34.00
	AEX-701	Wireless range extender (signal repeater)	Doubles transmission range of max. 6 transmitters. Indoors max. 60m, Outdoors max. 140m total		-	$65.00
	ATMT-502	Intelligent/ Programmable Remote Control	16 Channel Remote Control With LCD Display And 24 Hour Timer			$66.00
	AWST-6000	PIR Sensor Indoor	Wall Switch (Batt) Detection Field 20-80°	6m PIR	On - Off	$63.00
	APIR-2150	PIR Sensor-IP64	Outdoor (Batt) Detection Field 20-110°	10m PIR		$74.00
	ABST-604	Daylight Sensor (Photo-Electric)	Remote PE Cell	IP65	Lux Sensitive + Timer	$59.00
	AMST-606	Magnetic (Reed) Switch c/w Adj Off Delay - IP44	2 Part Magnetic Switch c/w CR2032 Battery	30mtrs	On - Off + Timer	$34.00

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Receivers

	Catalogue Ref No	Description	Format	Rating	Function	Trade Price
	ACM-3500-3**		3 Channel Receiver	3500W	Lights & Devices On/Off	$98.00
	**Note:		The ACM-3500-3 has 3 built-in receivers in one unit. This combined unit costs about the same as 2 ACM-1000 receivers. All ratings for incandescent loads.			
	ACD-200	Plug-In Receivers	Wall Socket Plug In	200W	Std Lights Switch & Dim	$39.00
	ACD-2400			2400W	Lights & Devices On/Offf	$32.00
	ACDB-6600AC	Receiver	Wireless Door Chime - Pushbutton & Receiver	- 4 memory addresses - 5 melodies, 4 volumes -Works with all transmitters -Powered by 3 x AA batteries		$59.00
	ACDB-6600C		Wireless Door Chime - Receiver Only			$45.00
	ACDB-7000A		Wireless Door Chime – Push button only			$27.00
	AWS-3500		Receiver Internal Switched Socket Mount	3500W (Max.)	Resistive Load On-Off	$68.00
	ACM-1000	RF Receivers	Wired In	1000W	Lights & Devices On/Off	$59.00
	ACM-300			300W	Incandescent Lights Switch & Dim	$68.00
NEW!	ACM-100			3-24W	LED/CFL Switch & Dim	$68.00
	ACM-2300H*			2300W	Lights & Devices On/Off	$69.00
NEW!	ACM-3000H2*			2 x 1500W	Lights & Devices On/Off Constant Supply	$79.00

*Please refer to page 177 of this catalogue for **ACM-2300H** and **ACM-3000H2** wiring diagrams.

Receivers

	Catalogue Ref No	Description	Format	Rating	Function	Trade Price
NEW!	ACM-LV10	LED Dimmer Receiver	Wired In	12-24VDC 1 to 10V output	On - Off & Dim	$65.00
	ACM-LV24			75W 12-24VDC		$65.00
	ASUN-650			500W	1P C/O (Fwd/Rev)	$79.00
	AMU-500			500W	Normally open contact to switch 230V or 12/24VAC/DC	$79.00
	AWMR-210	RF Recievers	Flush Box Mounted Wired In	210W	Incandescent Lights Switch & Dim	$74.00
	AWMR-230			230W	Incandescent Lights On-Off	$74.00
	AWMR-300			120/300W (Requires Neutral)	LED/Incandescent Lights On-Off	$74.00
	AWMD-250			3-24W	LED/CFL Switch & Dim	$74.00

Lighting Receivers

	Catalogue Ref No	Description	Format	Range/ Rating	Function	Trade Price
	ALED-2709	Wireless Dimmable LED Bulb	E27 Lampholder	Warm White 2700k 9W	On - Off & Dim	$43.00
	ALED-MR2705	Wireless Dimmable LED Downlight (M616) Lumens 350im	Downlights/ Spots	Warm White 2700K 5W	On - Off & Dim	$43.00
	ALED-G2706	Wireless Dimmable LED Downlight (GU10) Lumens 350im		Warm White 2700K 6W	On - Off & Dim	$43.00

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Accessories

	Catalogue Ref No	Description	Rating	Trade Price
	OWH-001	Splash Proof Outdoor Enclosure for: ACM-100/300/1000 and ASUN-650 Receiver		$25.00
	OWH-002	Splash Proof Outdoor Enclosure for: ACM-3500-3 Receiver	IP56	$33.00
	OWH-003	Splash Proof Outdoor Enclosure for: AWST-8800/8802 Transmitters		$39.00

Starter Sets

	Catalogue Ref No	Description	Format	Trade Price
	APA3-1500R	Wireless Switching Starter Pack	1 x Remote + 3 x Plug-In Receivers 1500W at 230V	$44.00
	ACD2-200R	Wireless Dimming Set	1 x AYCT-102 remote + 2 x AC-200 plug-in receivers	$85.00
	ACD3-2400R	Wireless Switching Set	1 x AYCT-102 remote + 3 x AC-2400 plug-in receivers 2400W	$99.00
	ALED2-2709R	Wireless Dimmable LED Bulbs & Remote Control Set	1 x AYCT-202 remote + 2 x ALED-2709 dimmable bulb receivers (warm White 2700k, 9W)	$142.00

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Zigbee Transmitters

	Catalogue Ref No	Description	Details	Trade Price
	ICS-Z1	Zigbee Z1 Control Station	- Convenient light control using your smartphone/tablet - Can be used with Trust Smart Home and other ZigBee certified devices such as Philips Hue (*compatibility on trust.com/zigbee)	**$85.00**

The smart solution to wirelessly control lights and secure your home from any location using your smartphone/tablet
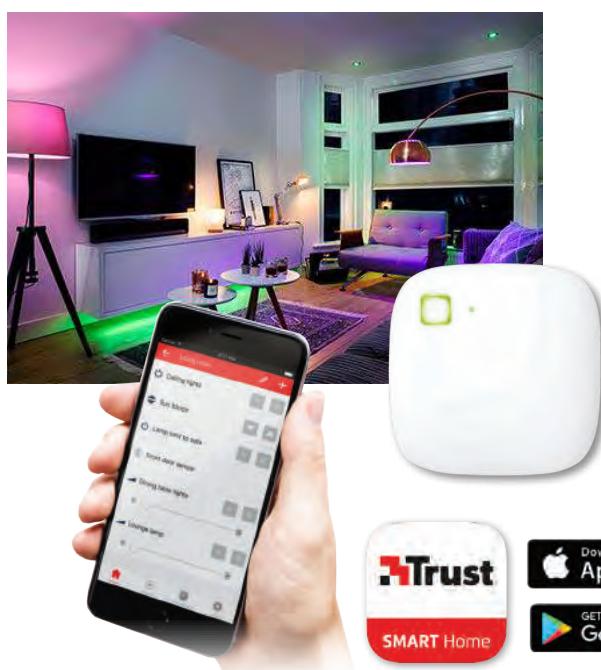
Zigbee Z1 Control Station

- Monitor your home with sensors and get push alert notifications on your smartphone/tablet

- Set up different scenarios and timers to automate your lights by using the intuitive rules editor

- Free app available for iPad, iPhone and Android tablet/smartphone

- Secure communication with AES encryption and SSLFuture-proof, firmware upgradeable

- Can be used with Trust Smart Home and other ZigBee certified devices such as Philips Hue (*compatibility on trust.com/zigbee)

SMART HOME.. SMART PHONE!

Use the Zigbee light bulbs in combination with the Zigbee Z1 Control Station to control your lighting.
Conntect the bulb(s) to the Z1 Control Station and install the Free Trust Smart Home App and you can control your Trust Smart Home Zigbee products from anywhere in the world at anytime!

	ZYCT-202	Zigbee Wireless Remote control with Wall mount	- Control up to 20 lights/devices independently - Magnetic wall mount to attach the remote to a surface - Compatible with Zigbee certified systems such as Phillips Hue - Long Battery life - Battery included	**$43.00**
	ZPIR-8000	Zigbee Wireless Motion Sensor	- Turns on lights when you enter a room, and saves power by turning them off when you leave. - Can be placed on any surface or mounted on a wall (indoors) - Wireless range up to 30m; increases withmore ZigBee products - Wide detection angle of 120° (horizontal) and long battery life	**$72.00**
	ZCTS-808	Zigbee Wireless Contact Sensor	- Set smart functions with App: turn off lights, sound alarm etc - Easily installed on a door/window (indoors) - Wireless range up to 30m, increases with more Zigbee products - Long Battery life - Battery included	**$47.00**
	ZLED-2709R	Zigbee Starter Set	- Set includes: 1 x ZYCT-202 remote and 2 x ZLED-2709 Bulbs	**$119.00**
	ZRGB2-Z1R		- Set includes: 1 x ICS-Z1 Control Station and 2 x ZLED-RGB9 Bulbs	**$241.00**

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Zigbee Smart Bulbs

|	Catalogue Ref No	Description	Format	Rating	Function	Trade Price
	ZLED-RGB9	Zigbee RGB Tunable LED bulb Lumens 800		Multicoloured 9W	On/Off & Dim Tunable	$78.00
	ZLED-2709	Zigbee Dimmable LED Bulb Lumens 806	E27 Lampholder	Warm White 2700k 9W		$38.00
	ZLED-2209	Zigbee Dimmable LED Flame Bulb Lumens 806	Compatible with other Zigbee certified systems such as Philips Hue	Warm flame light 2200k 9W	On/Off & Dim	$38.00
	ZLED-TUNE9	Zigbee Tunable LED Bulb Lumens 800		Cool White to Warm White 9W 2200k - 6500k	On/Off & Dim Tunable	$46.00
	ZLED-RGBG6	Zigbee RGB Tunable LED Spot Lumens 350		Multicoloured 6W	On/Off & Dim Tunable	$78.00
	ZLED-TUNEG6	ZigbeeTunable LED Spot Lumens 350	Downlights/ Spots (GU10 Fitting) Compatible with other Zigbee certified systems such as Philips Hue	Cool White to Warm White 6W 2200k - 6500k		$46.00
	ZLED-G2705	Zigbee Dimmable LED Spot Lumens 350		Warm White 2700k 5W	On/Off & Dim	$43.00
	ZLED-EC2206	Zigbee Dimmable LED Spot Lumens 470	E14 Lampholder Compatible with other Zigbee certified systems such as Philips Hue	Warm flame light 2200k 6W		$43.00

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TWO WAY SWITCHING SOLUTIONS WITH TRUST TRANSMITTERS AND RECEIVERS.

Solution #1

Receivers:

Existing Switch

+ AWMR-300

Transmitters:

AWMT-003

+
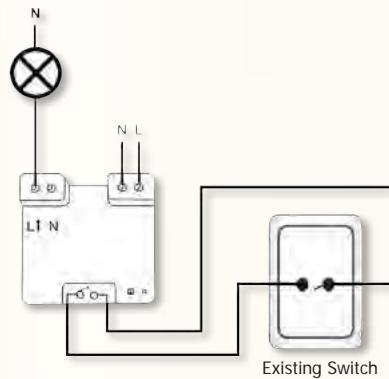
AWMR-300 - Mini Build-in Receiver

- Install this receiver behind a single wall switch to control your lights wirelessly with any Trust transmitter
- AWMR-300 is On/Off (Relay) 300w* 120w LED *Incandescent lights
- The original wall switch can still be used manually
- Neutral is required
- For larger lighting loads an external relay may be used
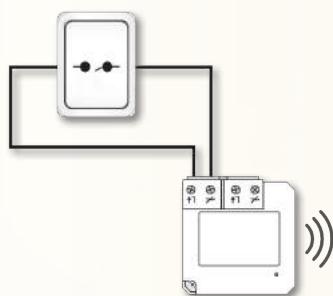
AWMT-003 - Mini Build-in Transmitter

- Install behind a single or double wall switch.
- Control your Trust receivers within 30 metres.

The above is for marketing purposes only, please refer to the instruction manual for the complete installation instructions.

Solution #2

Receivers:

Existing Switch

+ AWMR-230 or AWMR-210/ AWMD-250
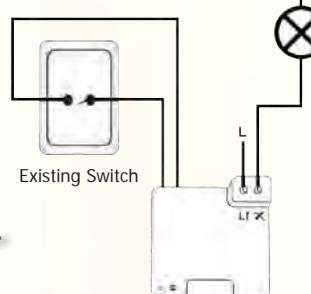
AWMR-230/AWMR-210/AWMD-250 - Mini Build-in Receivers

- Install this receiver behind a single wall switch to control your lights wirelessly with any Trust transmitter
- The original wall switch can still be used manually
- AWMR-230 is On/Off 230 Watts*
- AWMR-210 is a dimmer 210 Watts*
- *Incandescent lights
- AWMD-250 is a dimmer 3 to 24W LED & CFL 230VAC
- 6 memory addresses (max. 6 transmitters per receiver)

Transmitters:

AWMT-230 +

neutral wire ----
live wire ----
switch wire
live wire

Existing Wiring ------
New Wiring ——

- **Transmitter is battery powered**
- **Requires existing circuit and lighting load to operate**

The above is for marketing purposes only, please refer to the instruction manual for the complete installation instructions.
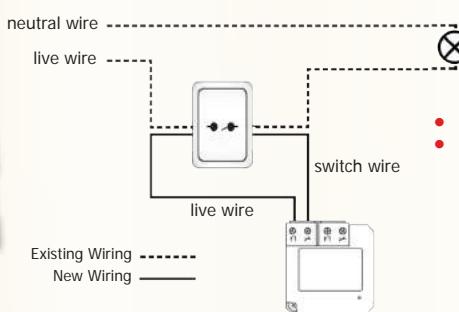
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## ACM-2300H and ACM-3000H2 Build in Receivers

Features/Benefits:

- Can be used to control lights/devices connected to an existing wall switch(es)
- Also supports 2 existing wall switches, like at the top/bottom of a stairwell
- Existing wall switch(es) remain(s) operational
- Works with all lights/devices up to 2300 & 2 x 1500Watt

NEW PRODUCT

ACM-2300H Wiring Diagrams
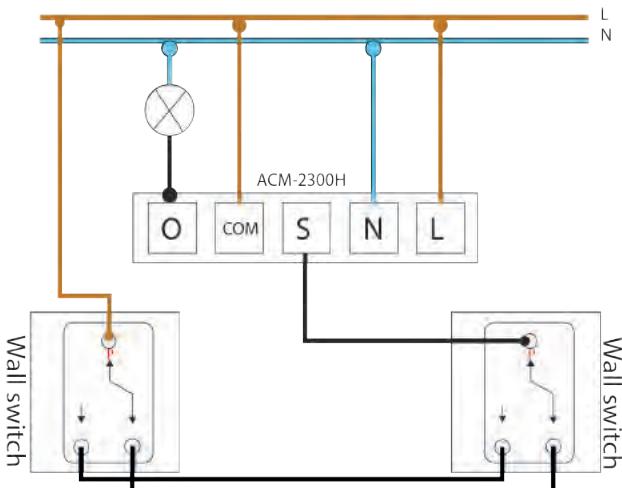
Technical installation schematic of the ACM-2300H with two wall swtiches (Corridor/Stairwell two-way switch)

ACM-3000H2 Wiring Diagrams
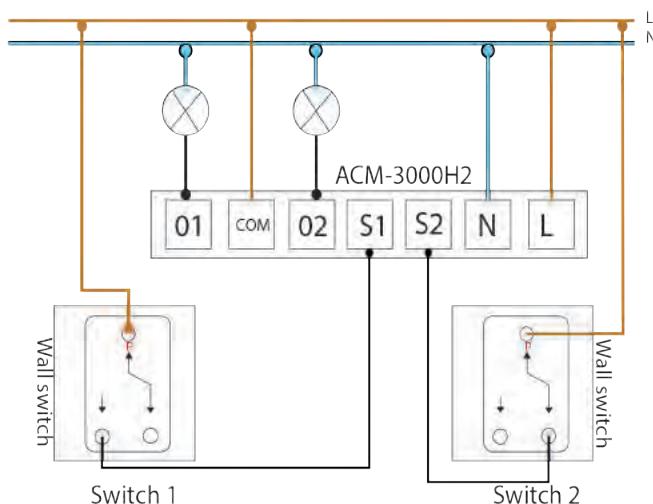
Technical installation schematic of the ACM-3000H2 with two wall swtiches (1 Corridor/Stairwell two-way switch)
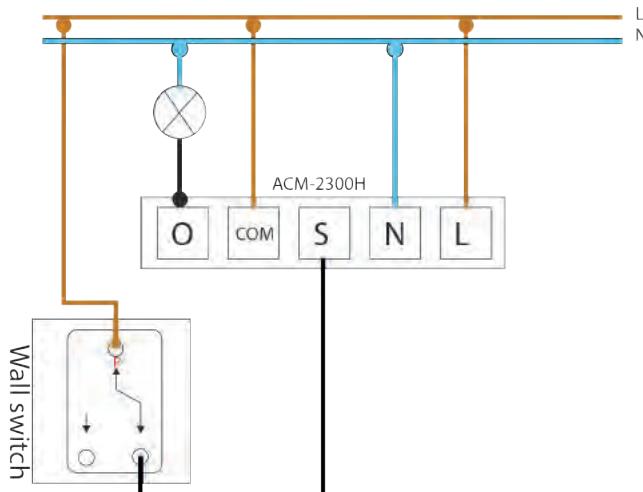
Technical installation schematic of the ACM-2300H with one wall switch.
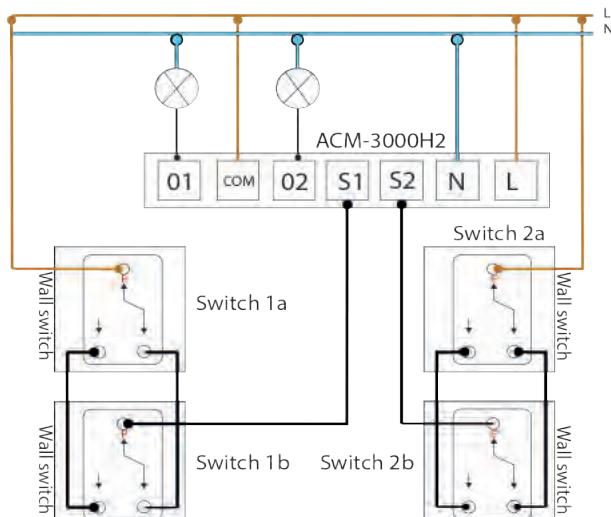
Technical installation schematic of the ACM-3000H2 with four wall switches (2 Corridor/Stairwell two-way switch)

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Variable Speed Drives

- Single & three phase variable speed drives
- Versatile and cost effective
- Ethernet and BacNet capable
- Fully engineered HVAC solutions
- Market leading brand and technology

Vacon 20 - Three Phase 415VAC Drives, IP20 (Panel Mount)

Code	Description		Power	Current	Price
20-3L-0001			0.37kW	1.3Amps	$660.00
20-3L-0002			0.55kW	1.9Amps	$686.00
20-3L-0003			0.75kW	2.4Amps	$728.00
20-3L-0004			1.1kW	3.3Amps	$820.00
20-3L-0005	Three Phase 415VAC Variable Speed Drive For Three Phase 415VAC Motors	415VAC	1.5kW	4.3Amps	$940.00
20-3L-0006			2.2kW	5.6Amps	$1,068.00
20-3L-0008			3.0kW	7.6Amps	$1,212.00
20-3L-0009			4.0kW	9.0Amps	$1,366.00
20-3L-0012			5.5kW	12.0Amps	$1,590.00
ENC-IN01-MI1-1/2/3	Enclosures for IP21 Rating				$85.00

Vacon 20 - Three Phase 415VAC Drives, IP21 (Wall Mount)

Code	Description		Power	Current	Price
20-3L-0016			7.5Kw	16Amps	$1,912.00
20-3L-0023	Three Phase 415VAC Variable Speed Drive For Three Phase 415VAC Motors	415VAC	11.0Kw	23Amps	$2,360.00
20-3L-0031			15.0Kw	31Amps	$2,884.00

Vacon 20X - Three Phase 415VAC Drives, IP66 (Weatherproof - Wall Mount)

| Code	Description		Power	Current	Price
20-3L-0003-X			0.75kW	2.4Amps	$1,139.00
20-3L-0004-X			1.1kW	3.3Amps	$1,235.00
20-3L-0005-X			1.5kW	4.3Amps	$1,339.00
20-3L-0006-X	Three Phase 415VAC Variable Speed Drive For Three Phase 415VAC Motors	415VAC	2.2kW	5.6Amps	$1,448.00
20-3L-0008-X			3.0kW	7.6Amps	$1,560.00
20-3L-0009-X			4.0kW	9.0Amps	$1,781.00
20-3L-0012-X			5.5kW	12.0Amps	$1,941.00
20-3L-0016-X			7.5kW	16.0Amps	$2,168.00

Note: Other sizes and specifications are available, please enquire.
Ethernet and BacNet options are also available to order.

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Watt Stopper

Energy Saving Automation & Lighting Control

- Low voltage (24VDC) lighting control system for energy saving through occupancy sensing and daylight 'harvesting'
- Dual technology sensing with combined PIR and ultrasonic sensors

PIR Occupancy Sensor Ceiling Mount 24VDC (Indoor)

	Catalogue Ref No	Description		Time Delay	Coverage Size	Application	Trade Price
	W-PIR	90° Std Unit		30s-30m	27.9m²	Small Office	$93.00
	CX-100	90° Std Unit + Lux Sensor		15s-30m	185.8m²	Office	$131.00
	CB-100	PIR 90° Occupancy Sensor for cold conditions. Low Temp, Operating range: -40°C to +35°C		15s-10m	185.8m²	Walk-in Chillers and Freezers	$250.00
	CI-300	360° Std Unit + Lux Sensor Flush Mtg	Std Lens	30s-30m	111.5m²	Larger Office	$142.00
	CI-300-1		High Density		46.5m²	Small meeting room	$142.00

CX-100

CI-300

PIR Occupancy Sensor Ceiling Mount 12VDC or 24VDC/AC - HVAC & BMS Applications

	Catalogue Ref No	Description	Time Delay	Coverage Size	Application	Trade Price
	CI-24	360° Std Unit Flush Mtg	30s-30m	111.5m²	Offices	$96.00
	CI-24-1	360° Std Unit + Hi-Density Lens Flush Mounting		46.5m²		$96.00

CI-24

PIR Occupancy Sensor 24VDC (Outdoor) IP55

	Catalogue Ref No	Description		Time Delay	Coverage Size	Application	Trade Price
	EW-205-24-W	270° Std Unit Surface Mtg	White	12s-16m	16m Linear	Outdoor	$98.00
	EW-205-24-G		Grey				$98.00

EW-205-24

Ultrasonic Occupancy Sensor Ceiling Mount 24VDC

	Catalogue Ref No	Description	Time Delay	Coverage Size	Application	Trade Price
	W-500A	360° Ultrasonic Sensor Surface Mtg	15s-15m	46.5m²	Toilets and Open Plan Areas	$122.00
	W-1000A			92.9m²		$142.00
	W-2000A			185.8m²		$163.00
	W-2000H	Ultrasonic Corridor Sensor Surface Mount		24.7m Linear	Corridors	$163.00
	UT-300-1	360Deg Ultrasonic + Lux Sensor Ceiling flush mount	5m-30m	46.5m²	Toilets and Open Plan Areas	$169.00
	UT-300-2			92.9m²		$198.00
	UT-300-3			185.8m²		$226.00

W-1000A

UT-300 Sensors

Dual Technology Occupancy Sensors Wall & Ceiling Mount 24VDC

	Catalogue Ref No	Description	Time Delay	Coverage Size	Application	Trade Price
	DT-200	90° Dual Tech + Lux Sensor Surface Mtg	5m-30m	92.9m²	Classrooms and Boardrooms	$224.00
	DT-300	360° Dual Tech + Lux Sensor Ceiling Flush Mtg				$224.00

Wall Switch Occupancy Detectors & Time Switches 24VDC

	Catalogue Ref No	Description	Coverage Size Timer	Application	Trade Price
TS-400	TS-400-24	Digital Time Delay Switch	5m - 12H	Storage Room	$82.00
	PW-100-24-W	PIR Wall Switch Man/Auto	5m - 30m	Small offices and Toilets	$128.00
	UW-100-24-W	Ultrasonic Wall Switch Man/Auto			$140.00
	DW-100-24-W	Dual Tech Wall Switch Man/Auto			$207.00

Daylighting Controls 24VDC

	Catalogue Ref No	Description	Application	Trade Price
	LS-102	Programmable Daylight Control	Indoor Daylight Controllers	$126.00

High Bay Occupancy Sensors 24VDC

	Catalogue Ref No	Description	Application	Trade Price
	HB-300	High Bay Occupancy Sensor Module	Warehouse and Gymnasiums	$101.00
	HB-300C-B	Low Temp -40 to +35DegC (HB-300C-B)		$101.00
High Bay Lens	HB-L1		Two sided aisleway coverage	$24.00
	HB-L1M	High Bay Sensor Lens Only	One sided aisleway coverage	$24.00
	HB-L3		360° 7m at 6m mounting height	$24.00
	HB-L4		360° 20m at 12m mounting height	$24.00

Power Supply's

	Catalogue Ref No	Description	Input	Output	Detail	Trade Price
BD-100E-P	B230E-P	Power Pack Junction Box Mounting	230VAC	24VDC 114mA	20Amp Relay	$44.00
	BD-100E-P	Power Pack DIN Rail Mtg Hold On + Hold Off		24VDC 175mA		$84.00

Accessories

	Catalogue Ref No	Description	Sensors	Trade Price
	WC-1	Protective Wire Cage For Sensors	DT-200 / CX-100 / CB-100	$65.00
	WC-2			$65.00
	WC-3		W-500A/ W2000H / WT / CI-200 / WPIR / DT-300 / UT-300 / CI-300	$65.00
WC Cage	WC-4	Protective Wire Cage For Wall Switches	DW-100 / UW-100 / PW-100	$65.00
	CA-1	Adaptor Plate for 300 Series Sensors		$4.00
	MOUNTING BLOCK	Surface Mounting Block for use with CA-1		$30.00
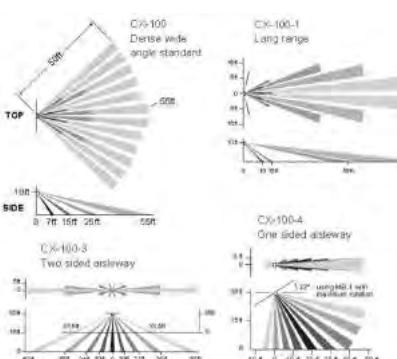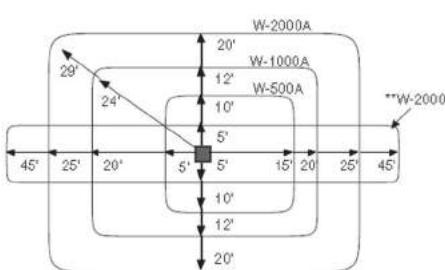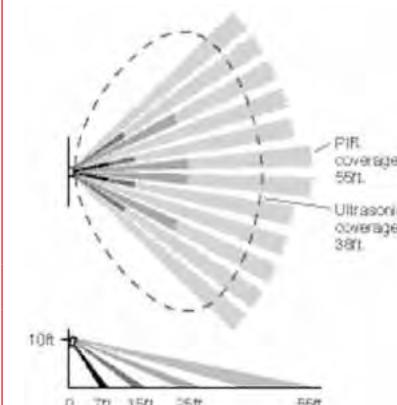
Technologies

| Passive Infra-Red	Ultrasonic	Dual Technology
Passive infra-red (PIR) technology detects occupancy by sensing the difference between heat emitted from a human body in motion and the back-ground space. PIR sensors require a clear line of sight. PIR occupancy sensors differ from ordinary PIR sensors by the higher density of sensors and coverage.	Ultrasonic technology works by transmitting ultrasonic sound waves throughout an area and measuring the speed at which they return. Occupant movements change the frequency of the waves. Ultrasonic sensors can detect movement around partitions and obstacles.	Combined PIR and ultrasonic technology ensure maximum sensitivity and coverage for hard to sense spaces for optimal reliability and energy savings.
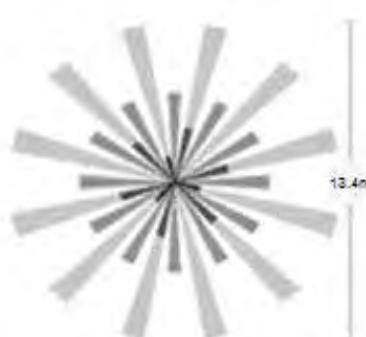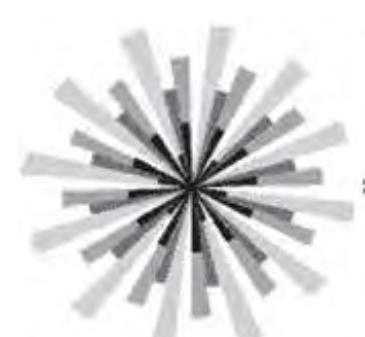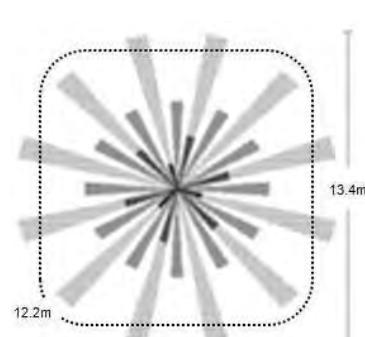
Recommended Uses

Passive Infra-Red	Ultrasonic	Dual Technology
Small offices Warehouses Library bookstacks or other aisles Common areas & lobbies Computer rooms	Restrooms Open office spaces Enclosed hallways Stairways	Classrooms Large conference rooms Large offices Lunchrooms

Coverage Patterns

Passive Infra-Red	Ultrasonic	Dual Technology
Wall Mount...	Ceiling Mount...	Wall Mount...

Total coverage...

W-500A	46.5m²	W-2000A	185.8m²
W-1000A	92.9m²	W-2000H	27m Linear

Passive Infra-Red		Dual Technology
Ceiling Mount - Standard Density...	Ceiling Mount - High Density	Ceiling Mount - Standard Density...

13.4m

24 ft

13.4m
12.2m

Eurotec Ltd Conditions of Sale

1. Definitions

1.1 "Seller" shall mean Eurotec Ltd and its successors and assigns.

1.2 "Buyer" shall mean the Buyer or any person acting on behalf of and with the authority of the Buyer.

1.3 "Guarantor" means that person (or persons), or entity that agrees herein to be liable for the debts of the Buyer on a principal debtor basis.

1.4 "Goods" shall have the same meaning as in section 2 of the Sale of Goods Act 1908 and are goods supplied by the Seller to the Buyer (and where the context so permits shall include any supply of Services as hereinafter defined).

1.5 "Services" shall mean all services supplied by the Seller to the Buyer and includes any advice or recommendations (and where the context so permits shall include any supply of Goods as defined above).

1.6 "Price" shall mean the cost of the Goods as agreed between the Seller and the Buyer subject to clause 4 of this contract.

2. Acceptance

2.1 Any instructions received by the Seller from the Buyer for the supply of Goods and/or the Buyer's acceptance of Goods supplied by the Seller shall constitute acceptance of the terms and conditions contained herein.

2.2 Where more than one Buyer has entered into this agreement, the Buyers shall be jointly and severally liable for all payments of the Price.

2.3 Upon acceptance of these terms and conditions by the Buyer the terms and conditions are irrevocable and can only be rescinded in accordance with these terms and conditions or with the written consent of the manager of the Seller.

2.4 None of the Seller's agents or representatives are authorised to make any representations, statements, conditions or agreements not expressed by the manager of the Seller in writing nor is the Seller bound by any such unauthorised statements.

3. Goods / Services

3.1 The Goods and/or Services are as described on the invoices, quotation, work authorisation or any other work commencement forms as provided by the Seller to the Buyer.

4. Price And Payment

4.1 At the Seller's sole discretion the Price shall be either;

(a) as indicated on invoices provided by the Seller to the Buyer in respect of Goods supplied; or

(b) Seller's quoted Price (excluding engineering or commissioning unless specified) which (subject to clause 4.2) shall be binding upon the Seller provided that the Buyer shall accept in writing the Seller's quotation within thirty (30) days.

4.2 Any variation from the plan of scheduled works or specifications (including, without limitation, foreign exchange fluctuations, taxes and duties, provisions of any Acts, By-Law, Order or Regulation of any parliament, municipality or local authority enacted after the date of contract between the Buyer and Seller) will be charged for on the basis of the Seller's quotation and will be shown as extras on the invoice. Payment for all extras must be made in full at their time of completion.

4.3 Quoted Prices shall be based on those ruling at the date of quotation. Indent prices are based on the exchange rate and freight rates ruling at date of quotation. All prices are ex-store Auckland.

4.4 Time for payment for the Goods shall be of the essence and will be stated on the invoice, quotation or any other order forms. If no time is stated then payment shall be on delivery of the Goods.

4.5 At the Seller's sole discretion, payment for approved Buyer's shall be due twenty (20) days following the end of the month in which the Goods and/or Services were provided.

4.6 Payment will be made by cash on delivery, or by cheque, or by bank cheque, or by credit card, or by direct credit, or by any other method as agreed to between the Buyer and the Seller.

4.7 The Price shall be increased by the amount of any GST and other taxes and duties which may be applicable, except to the extent that such taxes are expressly included in any quotation given by the Seller.

5. Delivery Of Goods

5.1 Delivery of the Goods shall be made to the Buyer's address. The Buyer shall make all arrangements necessary to take delivery of the Goods whenever they are tendered for delivery, or delivery of the Goods shall be made to the Buyer at the Seller's address.

5.2 Delivery of the Goods to a carrier, either named by the Buyer or failing such naming to a carrier at the discretion of the Seller for the purpose of transmission to the Buyer, is deemed to be a delivery of the Goods to the Buyer.

5.3 Delivery of the Goods to a third party nominated by the Buyer is deemed to be delivery to the Buyer for the purposes of this agreement.

5.4 The failure of the Seller to deliver shall not entitle either party to treat this contract as repudiated.

5.5 The Seller shall not be liable for any loss or damage whatever due to failure by the Seller to deliver the Goods (or any of them) promptly or at all.

6. Risk

6.1 If the Seller retains title to the Goods nonetheless all risk for the Goods passes to the Buyer on delivery.

6.2 During the period between delivery and final payment for the goods, the Buyer will maintain sufficient insurance thereon in the name of the Seller against loss or damage from any course to cover the unpaid balance of the purchase price and failing to do so no loss or damage suffered during the aforesaid period shall relieve the Buyer from payment of the balance of the purchase price or from any of the terms of this contract. During such period the Buyer will maintain all Goods and materials delivered by the Seller in good condition.

6.3 If any of the Goods are damaged or destroyed prior to title to them passing to the Buyer, the Seller is entitled, without prejudice to any of its other rights or remedies under these terms and conditions (including the right to receive payment of the balance of the Price for the Goods), to receive all insurance proceeds payable in respect of the Goods. This

applies whether or not the Price has become payable under these terms and conditions. The production of these terms and conditions by the Seller is sufficient evidence of the Seller's rights to receive the insurance proceeds without the need for any person dealing with the Seller to make further enquiries.

7. Defects/Returns/Order Cancellations

7.1 The Buyer shall inspect the Goods on delivery and shall within fourteen (14) days of delivery notify the Seller of any alleged defect, shortage in quantity, damage or failure to comply with the description or quote. The Buyer shall afford the Seller an opportunity to inspect the Goods within a reasonable time following delivery if the Buyer believes the Goods are defective in any way. If the Buyer shall fail to comply with these provisions the Goods shall be conclusively presumed to be in accordance with the terms and conditions and free from any defect or damage.

7.2 For defective Goods, which the Seller has agreed in writing that the Buyer is entitled to reject, the Seller's liability is limited to either (at the Seller's discretion) replacing the Goods or repairing the Goods provided that:

(a) the Buyer has complied with the provisions of clause 7.1;

(b) the Seller will not be liable for Goods which have not been stored or used in a proper manner;

(c) the Goods are returned in the condition in which they were delivered and with all packaging material, brochures and instruction material in as new condition as is reasonably possible in the circumstances.

7.3 The Seller may (in its discretion) accept the Goods for credit but this may incur a handling fee (of at least 15% of the value of the returned Goods) as determined by the Seller from time to time plus any freight.

7.4 Goods specially Indented or manufactured for the Buyer will not be accepted back for credit.

7.5 Cancellation of any order or backorder placed by the Buyer must be received in writing by the Seller prior to actual delivery of the goods. Indent orders cannot be cancelled by the Buyer unless cancellation is agreed to by the supplier of the goods to the Seller.

8. Warranty

8.1 Subject to the conditions of warranty set out in Clause 8.2 the Seller warrants that if any defect in any workmanship of the Seller becomes apparent and is reported to the Seller within twelve (12) months of the date of delivery (time being of the essence) then the Seller will either (at the Seller's sole discretion) repair the defect or remedy the workmanship.

8.2 The conditions applicable to the warranty given by Clause 8.1 are:

(a) The warranty shall not cover any defect or damage which may be caused or partly caused by or arise through:

i) Failure on the part of the Buyer to properly maintain any Goods; or

ii) Failure on the part of the Buyer to follow any instructions or guidelines provided by the Seller; or

iii) Any use of any Goods otherwise than for any application specified on a quote or order form; or

iv) The continued use of any Goods after any defect becomes apparent or would have become apparent to a reasonably prudent operator or user; or

v) Fair wear and tear, any accident or act of God.

(b) The warranty shall cease and the Seller shall thereafter in no circumstances be liable under the terms of the warranty if the workmanship is repaired, altered or overhauled without the Seller's consent.

(c) In respect of all claims the Seller shall not be liable to compensate the Buyer for any delay in either replacing or repairing the workmanship/Goods or in properly assessing the Buyer's claim.

8.3 For Goods not manufactured by the Seller, the warranty shall be the warranty described in Clause 8.1 unless the manufacturer of the Goods provides a longer warranty period in which case that longer period will apply.

9. Default & Consequences Of Default

9.1 Interest on overdue invoices shall accrue from the date when payment becomes due daily until the date of payment at a rate of 2.5% compounding per calendar month and shall accrue at such a rate after as well as before any judgement.

9.2 If the Buyer defaults in payment of any invoice when due, the Buyer shall indemnify the Seller from and against all of the Seller's costs and disbursements including on a solicitor and own client basis and in addition all of the Seller's nominees costs of collection.

9.3 Without prejudice to any other remedies the Seller may have, if at any time the Buyer is in breach of any obligation (including those relating to payment), the Seller may suspend or terminate the supply of Goods to the Buyer and any of its other obligations under the terms and conditions. The Seller will not be liable to the Buyer for any loss or damage the Buyer suffers because the Seller exercised its rights under this clause.

9.4 In the event that:

(a) any money payable to the Seller becomes overdue, or in the Seller's opinion the Buyer will be unable to meet its payments as they fall due, or;

(b) the Buyer becomes insolvent, convenes a meeting with its creditors or proposes or enters into an arrangement with creditors, or makes an assignment for the benefit of its creditors, or;

(c) a receiver, manager, liquidator (provisional or otherwise) or similar person is appointed in respect of the Buyer or any asset of the Buyer,then without prejudice to the Seller's other remedies at law:

(i) the Seller shall be entitled to cancel all or any part of any order of the Buyer which remains unperformed in addition to and without prejudice to any other remedies; and

(ii) all amounts owing to the Seller shall, whether or not due for payment, immediately become due and payable.

Eurotec Ltd Conditions of Sale

10. Title

10.1 It is the intention of the Seller and agreed by the Buyer that property in the Goods shall not pass until:

(a) The Buyer has paid all amounts owing for the particular Goods, and

(b) The Buyer has met all other obligations due by the Buyer to the Seller in respect of all contracts between the Seller and the Buyer, and that the Goods, or proceeds of the sale of the Goods, shall be kept separate until the Seller shall have received payment and all other obligations of the Buyer are met.

10.2 Receipt by the Seller of any form of payment other than cash shall not be deemed to be payment until that form of payment has been honoured, cleared or recognised and until then the Seller's ownership of rights in respect of the Goods shall continue.

10.3 It is further agreed that:

(a) Until such time as ownership of the Goods shall pass from the Seller to the Buyer the Seller may give notice in writing to the Buyer to return the Goods or any of them to the Seller. Upon such notice the rights of the Buyer to obtain ownership or any other interest in the Goods shall cease.

(b) If the Buyer fails to return the Goods to the Seller then the Seller or the Seller's agent may enter upon and into land and premises owned, occupied or used by the Buyer, or any premises as the invitee of the Buyer, where the Goods are situated and take possession of the Goods, without being responsible for any damage thereby caused.

11. Personal Property Securities Act 1999

11.1 Upon assenting to these terms and conditions in writing the Buyer acknowledges and agrees that:

(a) these terms and conditions constitute a security agreement for the purposes of the PPS A; and

(b) a security interest is taken in all Goods previously supplied by the Seller to the Buyer (if any) and all Goods that will be supplied in the future by the Seller to the Buyer during the continuance of the parties relationship.

11.2 The Buyer undertakes to:

(a) sign any further documents and/or provide any further information, such information to be complete, accurate and up-to-date in all respects, which the Seller may reasonably require to register a financing statement or financing change statement on the Personal Property Securities Register;

(b) indemnify, and upon demand reimburse, the Seller for all expenses incurred in registering a financing statement or financing change statement on the Personal Property Securities Register or releasing any Goods charged thereby;

(c) not register a financing change statement or a change demand without the prior written consent of the Seller;

(d) give the Seller not less than fourteen (14) days prior written notice of any proposed change in the Buyer's name and/or any other change in the Buyer's details (including but not limited to, changes in the Buyer's address, facsimile number, or business practice); and

(e) immediately advise the Seller of any material change in its business practices of selling the Goods which would result in a change in the nature of proceeds derived from such sales.

11.3 The Seller and the Buyer agree that nothing in sections 114(1)(a), 133 and 134 of the PPSA shall apply to these Terms and Conditions.

11.4 The Buyer waives its rights as a debtor under sections 116,120(2), 121, 125, 126, 127,129, 131 and 132 of the PPSA.

11.5 Unless otherwise agreed to in writing by the Seller, the Buyer waives its right to receive a verification statement in accordance with section 148 of the PPSA.

11.6 The Buyer unconditionally ratifies any actions taken by the Seller under clauses 11.1 to 11.5. under and by virtue of the power of attorney given by the Buyer to the Seller.

12. Security & Charge

12.1 Despite anything to the contrary contained herein or any other rights which the Seller may have howsoever:

(a) Where the Buyer and/or the Guarantor (if any) is the owner of land, realty or any other asset capable of being charged, both the Buyer and/or the Guarantor agree to mortgage and/or charge all of their joint and/or several interest in the said land, realty or any other asset to the Seller or the Seller's nominee to secure all amounts and other monetary obligations payable under the terms and conditions. The Buyer and/or the Guarantor acknowledge and agree that the Seller (or the Seller's nominee) shall be entitled to lodge where appropriate a caveat, which caveat shall be released once all payments and other monetary obligations payable hereunder have been met.

(b) Should the Seller elect to proceed in any manner in accordance with this clause and/or its sub-clauses, the Buyer and/or Guarantor shall indemnify the Seller from and against all the Seller's costs and disbursements including legal costs on a solicitor and own client basis.

(c) To give effect to the provisions of clause [11, 12.1(a) to (b)] inclusive hereof the Buyer and/or the Guarantor (if any) do hereby irrevocably nominate constitute and appoint the Seller or the Seller's nominee as the Buyer's and/or Guarantor's true and lawful attorney to execute mortgages and charges (whether registerable or not) including such other terms and conditions as the Seller and/or the Seller's nominee shall think fit in his/her/its/their absolute discretion against the joint and/or several interest of the Buyer and/or the Guarantor in any land, realty or asset in favour of the Seller and in the Buyer's and/or Guarantor's name as may be necessary to secure the said Buyer's and/or Guarantor's obligations and indebtedness to the Seller and further to do and perform all necessary and other acts including instituting any necessary legal proceedings, and further to execute all or any documents in the Seller's absolute discretion which may be necessary or advantageous to give effect to the provisions of this clause.

13. Intellectual property

13.1 Where the Seller has designed or drawn Goods for the Buyer, then the copyright in those designs and drawings shall remain vested in the Seller, and shall only be used **by the Buyer at the Seller's discretion.**

13.2 The Buyer warrants that all designs or instructions to the Seller will not cause the Seller to infringe any patent, registered design or trademark in the execution of the Buyer's order.

14. Cancellation

14.1 The Seller may cancel these terms and conditions or cancel delivery of Goods and Services at any time before the Goods are delivered by giving written notice. On giving such notice the Seller shall promptly repay to the Buyer any sums paid in respect of the Price for those Goods. The Seller shall not be liable for any loss or damage whatsoever arising from such cancellation.

15. Privacy Act 1993

15.1 The Buyer and the Guarantor/s (if separate to the Buyer) authorises the Seller to:

(a) collect, retain and use any information about the Buyer, for the purpose of assessing the Buyer's creditworthiness or marketing products and services; and

(b) to disclose information about the Buyer, whether collected by the Seller from the Buyer directly or obtained by the Seller from any other source, to any other credit provider or any credit reporting agency for the purposes of providing or obtaining a credit reference, debt collection or notifying a default by the Buyer.

15.2 Where the Buyer is a natural person the authorities under (clause 15.1) are authorities or consents for the purposes of the Privacy Act 1993.

15.3 The Buyer shall have the right to request the Seller for a copy of the information about the Buyer retained by the Seller and the right to request the Seller to correct any incorrect information about the Buyer held by the Seller.

16. Buyer's Disclaimer

16.1 The Buyer hereby disclaims any right to rescind, or cancel the contract or to sue for damages or to claim restitution arising out of any misrepresentation made to him by any servant or agent of the Seller and the Buyer acknowledges that he buys the Goods relying solely upon his own skill and judgement.

17. Contractual Remedies Act

17.1 The provisions of the Contractual Remedies Act 1979 shall apply to this contract as if section 15(d) of the Contractual Remedies Act which states that nothing in the Contractual Remedies Act shall affect the Sale of Goods Act 1908, were omitted from the Contractual Remedies Act 1979.

18. Unpaid Seller's Rights To Dispose Of Goods

18.1 In the event that:

(a) the Seller retains possession or control of the Goods; and

(b) payment of the Price is due to the Seller; and

(c) the Seller has made demand in writing of the Buyer for payment of the Price in terms of this contract; and

(d) the Seller has not received the Price of the Goods, then, whether the title in the Goods has passed to the Buyer or has remained with the Seller, the Seller may dispose of the Goods and may claim from the Buyer the loss to the Seller on such disposal.

19. Consumer Guarantees Act 1993

19.1 This agreement is subject to the provisions of the Consumer Guarantees Act 1993 in all cases except where the Buyer is contracting within the terms of a trade/business (which cases are specifically excluded).

20. Construction Contracts Act 2002

20.1 The parties agree that for the purposes of the Construction Contracts Act 2002 this contract is not a commercial construction contract or a construction contract whether for a commercial or residential property or work and devise liability under this contract shall be in no way limited by any contract that the Buyer may have entered into with a third party in relation to the supply of Goods and/or Services to that third party or the payment by the third party to the Buyer of any monies whether by progress payments or otherwise.

21. General

21.1 If any provision of these terms and conditions shall be invalid, void or illegal or unenforceable the validity existence, legality and enforceability of the remaining provisions shall not be affected, prejudiced or impaired.

21.2 All Goods and Services supplied by the Seller are supplied subject to the laws of New Zealand and the Seller takes no responsibility for changes in the law that affect the Goods or Services supplied.

21.3 The Seller shall be under no liability whatsoever to the Buyer for any indirect loss and/or expense (including loss of profit) suffered by the Buyer arising out of a breach by the Seller of these terms and conditions.

21.4 In the event of any breach of this contract by the Seller the remedies of the Buyer shall be limited to damages. Under no circumstances shall the liability of the Seller exceed the Price of the Goods.

21.5 Neither party shall be liable for any default due to any act of God, terrorism, war, strike, lock out, industrial action, flood, storm or other event beyond the reasonable control of either party.
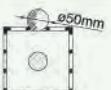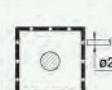
**21.6** The Buyer shall not set off against the Price amounts due from the Seller.

21.7 The Seller may license or sub-contract all or any part of its rights and obligations without the Buyer's consent.
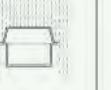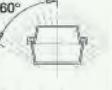
21.8 The Seller reserves the right to review these terms and conditions at any time and from time to time. If, following any such review, there is to be any change in such terms and conditions, that change will take effect from the date on which the Seller notifies the Buyer of such change.

EUROTEC
People • Technology • Solutions

HVAC • Refrigeration • Electrical • Measurement

INGRESS PROTECTION (IP RATING) ACCORDING TO EN 60529

1ˢᵗ characteristic figure protection against the entry of solid bodies.

1° st characteristic	0	1	2	3	4	5	6
Protection against entry of foreign solid objects	None	Solid objects with min. size greater than 50mm	Solid bodies with minimum size greater than 12.5mm	Threadlike objects with section greater than 2.5mm	Threadlike objects with section greater than 1mm	Protected against dust	Dust–tight
Means of testing	None	Globe Ø 50mm	Globe Ø 12.5mm + test finger	Stiff wire Ø 2.5mm	Stiff wire Ø 1mm	Chamber circulation of talcum	Chamber circulation of talcum
Allowed use	In shells	Closed areas (accessible only to authorised, trained personnel)	Normal areas containing only low–value objects installation on vertical walls	Normal areas installation on vertical walls or inaccessible horizontal surfaces	Normal areas installation also on inaccessible horizontal shelves	Places occasionally dusty	Permanently dusty areas
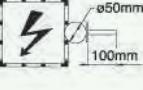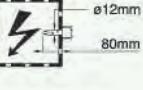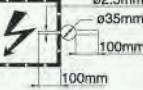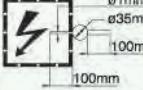
2ⁿᵈ characteristic figure protection against penetration of water.

2° nd characteristic	0	1	2	3	4	5	6	7	8
Protection against water entry	None	Condensation (falling vertical drops)	Condensation (fall of drops at a 15° angle)	Sprinkling with angle up to 60° from the vertical	Splashing from all directions	Jets from all directions	Water protection sea–storms	Temporary immersion	Permanent immersion
Means of testing	None	Dripping tray	Dripping tray	Overhead spray head	360°–rotating spray head	Ø 6.3mm nozzle flow rate 12.5 l/min	Ø 12.5mm nozzle flow rate 100 l/min	In tray with 1m water head	As per agreements between client and manufacturer
Allowed use	In dry rooms	In damp rooms with component in predetermined vertical position	In humid environments with component in not perfectly vertical position	Environments exposed to rain but not to bottom spray	Environments exposed to rain and bottom spray (e.g.: station with vehicle traffic)	Environments cleaned with medium–pressure water jets	Places subject to energetic washing and sea–storms (piers)	Environments subjected to temporary flooding or long–term exposure to snow	Functionality underwater

Additional letters

3° rd additional letter	A	B	C	D
Personal protection against contact with	The back of the hand	Fingers	Small tools	Threads, needles, nails
Test gauge	Globe Ø 50mm	Test finger Ø 12mm	Stiff wire with stopping surface Ø 2.5mm	Stiff wire with stopping surface Ø 1mm
Allowed use	Closed places (accessible only for authorised persons)	Accessible places for non–trained people	Places where small tools are used (screwdrivers)	Places where threadlike objects are used

Supplementary letters
(only for particular components)

H	High voltage equipment
M	Tested in motion against water entry
S	Tested stationary against water entry
W	With additional protection measures to be specified

Example of full application of IP code:

INDEX — PROTECTED AGAINST WIRE ENTRANCE Ø 2.5 — **IP 3 4 D W**

PROTECTED AGAINST SPLASHING

SUITABLE FOR USE IN THE WEATHER CONDITIONS DETAILED

CONTACT PREVENTED WITH 1MM WIRE

EUROTEC

People • Technology • Solutions

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