

06

AIR QUALITY

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DriSteem Humidification Systems

DriSteem is a premier provider of humidification, evaporative cooling, and water treatment solutions for commercial and industrial applications. DriSteem offers custom systems for critical indoor environments such as health care, data centers, and other facilities requiring precise control of moisture and cooling in the air.

RTS® HUMIDIFIER RX SERIES

The RTS humidifier is loaded with state-of-the-art features that make it stand out against other steam humidifiers on the market. Compatible with all water types including tap, softened, deionized, and reverse osmosis, this unit continuously learns as it runs and automatically adapts to optimize steam output and overall performance.

The new RTS humidifier offers a next generation breakthrough in resistive steam humidifiers, with ease of maintenance, installation flexibility, and environmental protection, while continuing DriSteem's legacy of sustained quality and dependability.

FLEXIBLE

- Capacity from 2.7 to 147 kg/h, link up to 8 units for capacity up to 1176 kg/h.
- Integrated drain water tempering automatically cools discharged hot water to 60 °C.
- Disperses steam through ductwork with dispersion tubes or panels, or directly into a room with a Space Distribution Unit (SDU) mounted remotely or above the RTS humidifier.
- Enclosures for virtually any environment: outdoor or indoor, or factory-HVAC installed.

ACCURATE

- Standard solid-state relay (SSR) operation on every unit.
- Control to $\pm 1\%$ RH.
- Optional mini-drain operation mode allows for 24/7 continuous steam output.

EASY TO MAINTAIN

- DriSteem's smart drain technology adjusts drain intervals automatically based on water quality. Draining removes precipitated minerals from the tank.
- User-adjustable water skimmer skims off floating minerals.
- End-of-season auto-drain minimizes microbial growth.
- Tank bottom is dual sloped with a side exit drain port located at the bottom of the slopes to ensure complete draining of tank.

COMPREHENSIVE CONTROL WITH VAPOR-LOGIC CONTROLLER

The RTS humidifier with the Vapor-logic® touchscreen controller sets new standards for control in electric steam humidification:

- Interoperability allows communication with building automation systems via Modbus® or BACnet® or with optional LonTalk® protocols.
- Safety presets initiate fill and drain cycles and keep the humidifier cool and safe if sensed conditions, though unlikely, could be hazardous.
- Web-enabled control allows you to set up, view, and adjust humidifier functions via Ethernet, either directly or remotely through a network.

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RTS humidifier RX series from DriSteem



RTS humidifier RX series with floor stand



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Serving the (BMS & HVAC)
Industry since 2005

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Humidi-tech humidifier from DriSteem

HUMIDI-TECH® HUMIDIFIER

The DriSteem Humidi-tech humidifier is a compact, cabinet-style unit compatible with all water types (tap, softened, deionized, reverse osmosis) and numerous dispersion options. Installation is a snap - just attach the frame to a supporting structure and connect electrical and water services.

Available matching Space Distribution Units disperse steam with no visible vapor trail, making Humidi-tech ideal for use in finished spaces.

VERSATILE

- Capacity from 2.7 to 46 kg/h, link up to 16 units for capacity up to 740 kg/h.
- Disperses steam through ductwork with dispersion tubes or panels, or directly into a room with a Space Distribution Unit (SDU) mounted remotely or on top of the Humidi-tech.
- Control to $\pm 3\%$ RH.
- On-off or time-proportioned (TP) control for application control in most environments; solid-state relay (SSR) option for tight control.
- Electronically monitored water level ensures safe and reliable operation.

ULTRA-SORB® MP STEAM DISPERSION PANELS

DriSteem steam dispersion units disperse steam generated by pressurized steam boilers or by non-pressurized steam humidifiers. The steam is distributed through ducts, air handlers, and even directly into finished spaces, where it is released in the airstream.

DriSteem's Ultra-sorb Model MP is a multi-purpose humidifier dispersion panel for both pressurized and atmospheric steam applications in AHUs or ducts.

- Wide steam capacity range, up to 1235 kg/h
- Same side steam inlet and drain for reduced piping and a clean installation in AHUs or ductwork.
- In-frame condensate drain piping maximizes available face dimensions and minimizes blank-off requirements.
- Integral steam header allows clear space on exterior walls of AHUs.

HIGH-EFFICIENCY TUBE OPTION

Ultra-sorb MP steam dispersion panel are available with DriSteem's industry-leading high-performance dispersion tube insulation.

Insulated dispersion tubes produce less condensate, leaving more steam available for humidification, and increasing the capacity of each tube. As a result, fewer tubes may be required to meet application requirements, further lowering condensate production and heat gain while reducing resource consumption and cost.



Ultra-sorb Model MP steam dispersion panel from DriSteem with high-efficiency insulated tubes



DriCalc[®]
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Specify & Select
Humidification
Systems

driSteem 

THE IMPORTANCE OF INDOOR AIR QUALITY

The relationship between poor indoor air quality (IAQ) and both short- and long-term adverse health effects has long been established. Despite the importance of breathing clean indoor air, many of us are often unknowingly exposed to poor IAQ regularly, underscoring the importance of taking proactive steps to improve IAQ and minimize our exposure to indoor air pollutants. A first line of defense of any comprehensive strategy to address IAQ includes air filters in a building's HVAC system.

IAQ experts recommend using at least MERV-13-rated filters for better filtration of particulate matter (PM). But higher-rated filters present several challenges. First, they are often much more expensive, and the costs of replacing and maintaining them can add up quickly, as filters must be regularly replaced (up to four times a year). Additionally, all filters – regardless of their efficiency rating – often struggle to capture microscopic and submicroscopic particles, including many common viruses and bacteria.

One way to improve filter performance and reduce airborne PM is by adding a complementary air-cleaning technology as part of a multilayered approach. Ionization provides a cost-effective solution that doesn't compromise filter performance or IAQ; in fact, it is shown to improve both.

IMPROVE YOUR INDOOR AIR QUALITY WITH NEEDLEPOINT BIPOLAR IONISATION TECHNOLOGY

GPS® patented NPBI technology works to improve IAQ by targeting airborne particles including certain odors, viruses and bacteria. NPBI technology introduces ions into a space via the existing HVAC system. When these ions disperse throughout a space, they seek out and form bonds with particles in the air through a process called agglomeration. This creates a snowball effect in which particles begin to cluster together. The larger a cluster of particles becomes, the easier it is for an HVAC system to filter it out of the air. In addition to this clustering effect, contact with ions also inactivates certain viruses and bacteria.

DM-2™

The DM-2 is the auto-cleaning NPBI™ system designed for indoor duct mounting. Its low-profile design allows for mounting in proximity to the occupied space, especially when combined with the DM-S™ round-duct mounting accessory.

CI-2™

The CI-2 is an auto-cleaning NPBI system designed to fit where traditional air ionizers don't, including fan coils, PTACs, ductless mini splits, ceiling cassettes and ducted modules, as well as traditional split systems and air handlers up to 2,400 CFM.

GPS-FC24™ -AC

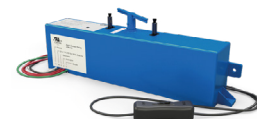
The GPS-FC24-AC is an auto-cleaning, lightweight NPBI system that handles up to 2,400 CFM or 6 tons. Designed for multiple mounting options, including fan inlets, interior duct walls or floors.

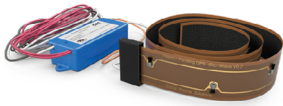
GPS-FC48™ -AC

The GPS-FC48-AC is an auto-cleaning, lightweight NPBI system that handles up to 4,800 CFM or 12 tons. Designed for multiple mounting options, including fan inlets, interior duct walls or floors.

GPS-DM48™ -AC

The GPS-DM48-AC is an auto-cleaning, lightweight NPBI™ system that handles up to 4,800 CFM or 12 tons. Design optimized for mounting into interior duct walls or floors.





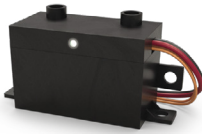
GPS-IRIB®-18/36

The GPS-iRIB is available in 18- and 36-inch lengths. This mechanism is engineered to deliver the highest level of ionization with the least amount of energy in the most compact size.



GPS-iMOD®

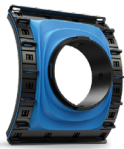
The GPS-iMOD is a modular NPBI system that is field-assembled to any length up to 240 inches in 6-inch increments. Designed for mounting in air handling units, the iMOD is ideal for preventing buildup on evaporator coils.



GPS-FC-3-BAS

The GPS-FC-3-BAS unit is designed to be mounted inside of fan coils, heat pumps, PTACs, ductless mini splits and air handlers up to 3,200 CFM or 8 tons. Its compact size and simple mounting requirement allow it to be mounted almost anywhere in just a few minutes.

ACCESSORIES



DM-S™

The DM-S is a single, adaptable saddle solution for installing the DM-2™ onto varying round-duct diameters of 6 inches and up. The DM-S saddle installation accessory is sold separately from NPBI™ systems.



PS-2™

The PS-2 is a single-power transformation solution for compatible GPS ionizer products.



GPS-iMEASURE

The GPS-iMEASURE is the first commercially available ion detector that can be permanently mounted in the space to measure ion levels in real time and report back to a building management system.



GPS-iMEASURE-D

The GPS-iMEASURE-D ion detector is permanently mounted in the duct downstream of any GPS® ionization device. It measures ion levels in real time and reports back to a BAS. It includes three sensitivity levels – 20,000, 200,000 or 2,000,000 ions/cc – that can be set based on the application and in-duct location.



GPS-iDETECT-P

The GPS-iDETECT-P is a plenum-mounted ionization detector that confirms the output from the GPS-iMOD® system. The GPS-iDETECT-P provides the ability to monitor ionization status in a plenum to confirm that the ionization equipment is working properly.



GPS-NEMA4-OE

The GPS-NEMA4-OE is a NEMA 4X-rated fiberglass enclosure designed to house one GPS-iMOD power supply. The panel adds a superior finished look to any project while providing the required protection against foreign substances, such as water and dust, when power supplies are mounted in a non-NEMA 1-rated environment.

RESIDENTIAL GAS LEAK DETECTORS

Seitron has been designing and manufacturing gas detectors for civil or domestic use for more than twenty years. From the beginning the choice was limited to 3 gases (2 explosive gases, methane and LPG, and 1 toxic gas, carbon monoxide - CO) and to produce gas leak detectors that deliver the maximum guarantees to those who use them for their own safety:

- Only detectors with acoustic alarm
- Relay output to activate normally closed (N.C.) and normally open (N.O.) electrovalve
- Only detectors powered with 230V mains voltage

BEAGLE & SEGUGIO COMPARISON CHART

Features	Beagle	Segugio
Zone Number	1	2
Natural Gas	RGDME5MP1R, RGDME5MP1T	RGDMETMP1R
LPG	RGDGP5MP1R, RGDGP5MP1T	RGDGPLMP1R
CO	RGDCK5MP1S, RDCBA1	RGDCOKMP1
Kit With 3/4" Gas Electrovalve (NO/NC)	✓	✓
Power Supply	230 V~	230 V~
Acoustic Alarm	✓	✓
Output for 230V~ Gas Ev	✓	✓
Output for 12V= Gas Ev	-	✓
Sensor Life	5 Years	5 Years
Precalibrated replaceable sensor	✓	✓
Instrument Warranty	3 Years	3 Years
Alarm Test Button	✓	✓
Yellow LED for Fault Alarm	✓	✓
Red LED for Gas Alarm	✓	✓
Green LED for Working Unit	✓	✓
Dimensions	L85 x A107 x P38 mm	L148 x A84 x P40 mm

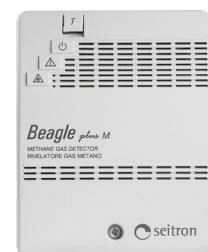
BEAGLE GAS LEAKAGE DETECTOR - METHANE

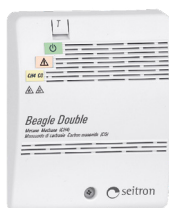
Domestic methane gas detector with output for driving 230V~ cut-off valves.

Test button. In compliance with CEI-EN 50194-1 standard. IMQ quality mark and compliance with CEI-EN 50194-1 certify the absolute reliability and efficiency of the device. Precalibrated sensor, directly replaceable by user. Pre-calibrated sensor (ACMM01), replaceable directly by the user.

Part Number	Description
RGDME5MP1R	SnO2 Semiconductor Precalibrated sensor, directly replaceable by user
RGDME5MP1T	with 2m cable and plug

Technical Features	Description
Power supply	230V~ -15/+10% 50Hz
Sensor life	5 years
IP rating	IP42
Dimensions	H107 W85 D38mm





BEAGLE GAS LEAKAGE DETECTOR - LPG

Microprocessor based domestic carbon monoxide detector with output for cut-off valves, fans or any other electrical actuators with 230V power supply. Carbon monoxide detection with accumulation mode: it simulates the gas accumulation in the human body according to standard EN 50291-1. Pre-calibrated sensor (ACMC01), replaceable directly by the user.

Part Number	Description
RGDGP5MP1R	SnO2 Semiconductor Precalibrated sensor, directly replaceable by user
RGDGP5MP1T	with 2m cable and plug

Technical Features	Description
Power supply	230V~ -15/+10% 50Hz
Alarm threshold	10% L.E.L.
IP rating	IP42
Dimensions	H107 W85 D38mm

BEAGLE GAS LEAKAGE DETECTOR - CO

Microprocessor based domestic carbon monoxide detector with output for cut-off valves, fans or any other electrical actuators with 230V power supply. Carbon monoxide detection with accumulation mode: it simulates the gas accumulation in the human body according to standard EN 50291-1. Pre-calibrated sensor (ACMC01), replaceable directly by the user.

Part Number	Description
RGDCK5MP1S	Precalibrated chemical cell on module, directly replaceable by user
RDCBA1	with 2m cable and plug

Technical Features	Description
Power supply	230V~ -±10% 50Hz
Alarm threshold	~30ppm CO lasting for >120 minutes
Button	Test/Alarm reset
Alarm Buzzer	Buzzer 85dB(A)@ 1m
IP rating	IP42
Dimensions	H107 W85 D38mm

BEAGLE GAS LEAKAGE DETECTOR - METHANE AND CO

Domestic methane (CH4) gas and carbon monoxide (CO) detector with facility for driving 230V~ cut-off valves or fans. Test button. Not compliant with EN 50291.

Part Number	Description
RGDCM0MP1	SnO2 Semiconductor

Technical Features	Description
Power supply	230V~ -15/+10% 50Hz
Alarm threshold	10% L.E.L. CH4 80ppm CO
Sensor life	5 years
IP rating	IP42
Dimensions	H107 W85 D38mm

SEGUGIO GAS LEAKAGE DETECTOR - METHANE

Microprocessor based domestic methane gas detector with output for both 230V~ and 12V~/= cut-off valves. Test function. Precalibrated sensor, directly replaceable by user. IMQ quality mark and compliance with CEI-EN 50194-1 certify the absolute reliability and efficiency of the device.

Part Number	Description
RGDMETMP1R	SnO2 Semiconductor Precalibrated sensor, directly replaceable by user

Technical Features	Description
Power supply	230V~ ±10% 50Hz
Sensor life	5 years
Alarm buzzer	85dB (A) @ 1m
IP rating	IP42
Dimensions	H107 W85 D38mm

SEGUGIO GAS LEAKAGE DETECTOR - CO

Microprocessor based domestic carbon monoxide detector with output for cut-off valves, fans or any other electrical actuators with 230V~ power supply. Carbon monoxide detection with threshold mode. Not compliant with EN 50291.

Part Number	Description
RGDCOHP11	Electrochemical cell type internal sensor

Technical Features	Description
Power supply	230V~ -15/+10% 50Hz
Alarm	Buzzer 85dB(A) @ 1m
Pre alarm threshold	16ppm
Alarm threshold	80ppm
IP rating	IP42
Dimensions	H84 W148 D40mm

SEGUGIO GAS LEAKAGE DETECTOR - LPG

Microprocessor based domestic LPG gas detector with output for both 230V~ and 12V~/= cut-off valves. Test function. Precalibrated sensor, directly replaceable by user. IMQ quality mark and compliance with CEI-EN 50194-1 certify the absolute reliability and efficiency of the device. Pre-calibrated sensor (ACMG01), replaceable directly by the user.

Part Number	Description
RGDGPLMP1R	SnO2 semiconductor Precalibrated sensor, directly replaceable by user

Technical Features	Description
Power supply	230V~ ±10% 50Hz
Sensor life	5 years
Alarm Buzzer	85dB (A) @ 1m
IP rating	IP42
Dimensions	H84 W148 D40mm

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SEGUGIO GAS LEAKAGE DETECTOR - CO

Microprocessor based domestic carbon monoxide detector with output for cut-off valves, fans or any other electrical actuators with 230V~ power supply. Carbon monoxide detection with accumulation mode: it simulates the gas accumulation in the human body according to standard EN50291.

Part Number	Description
RGDCOKMP1	Electrochemical cell

Technical Features	Description
Power supply	230V~ -15/+10% 50Hz
Button	Alarm Test-Reset
Alarm	Buzzer 85dB(A) @ 1m
IP rating	IP42
Dimensions	H84 W148 D40mm

SEGUGIO GAS LEAKAGE DETECTOR - METHANE + CO

Microprocessor based domestic methane and carbon monoxide detector equipped with two separated output relays with output for driving 230V~ cut-off valves. Sensors assembled on precalibrated modules replaceable by user. Carbon monoxide detection with accumulation mode: it simulates the gas accumulation in the human body according to standard EN 50291-1. Pre-calibrated sensor (ACMC01 CO, ACCM01 METANO), replaceable directly by the user.

Part Number	Description
RDXSM1	CH4 sensor type: SnO2 semiconductor. Pre-calib. sensor, directly replaceable by user CO sensor type: Pre-calibrated sensor on module replaceable by user

Technical Features	Description
Power supply	230V~ ±10% 50Hz
CH4 sensor life	5 years
Alarm	Buzzer 85dB(A)@1m
IP rating	IP42
Dimensions	H84 W148 D40mm

METHANE OR LPG REMOTE SENSOR (ONLY FOR SEGUGIO)

Remote sensor for natural gas or LPG leaks. Semiconductor sensitive element. Sensor life: 5 years. IP30 container.

Part Number	Description
SGAMET	Methane
SGAGPL	LPG

Technical Features	Description
Power supply	6V = .. 12V = from the control unit
Sensor life	5 years
Detectable gas	Methane or LPG
Degree of protection	IP30
Dimensions	A90 L65 P30mm

INDUSTRIAL GAS DETECTION

Seitron designs and manufactures detectors for methane gas, LPG, gas vapors and CO (Carbon Monoxide) for use in commercial premises and the process industry

INTERFACES

4..20mA

Fault in current loop: 0.0 mA

ZERO: 4.0 mA

Full range: 20.0 mA

Maximum resistance applicable as load at current loop output (4..20 mA) when supply voltage is 12V=-15% is 350 ohm.

Relays		Modbus ®	
Supply voltage:	12 Vdc	Interface:	RS485.
Maximum absorption:	80 mA @ 12 Vdc	Parameters:	19200, 8, N, 1.
Contact rating:	3 x 2 A 250 V~ (voltage free)	Communication protocol:	Modbus® RTU

CASE

Plastic Housing		Plastic Housing	
Filter:	Sinterised PE	Dimensions:	W5.3 H4.8 D2.5 in W134 H124 D67 mm
Case:	ABS V0 - ABS HB	Protection rating:	IP54

ATEX metal for N.C. zones		ATEX metal for N.C. zones	
Filter:	Sinterised stainless steel	Dimensions:	W4 H5.3 D2.4 in W100 H134 D60 mm
Case:	Die-cast Aluminum	Protection rating:	IP6X

ATEX metal for C.A. zones		ATEX metal for C.A. zones	
Filter:	Sinterised stainless steel	Dimensions:	W6.5 H4.6 D3.5 in W165 H117 D90 mm
Case:	Die-cast Aluminum	Protection rating:	IP6X





INDUSTRIAL RANGE TRANSMITTERS

Gas	Working Range	Output signal	Certificate	Cod
Methane	50% L.E.L.	4..20mA + Modbus	IMQ 15 ATEX 003 X	SXMX14M1Y
	100% L.E.L.	4..20mA + Modbus	IMQ 15 ATEX 003 X	SXMX16M1Y
LPG	50% L.E.L.	4..20mA + Modbus	IMQ 15 ATEX 003 X	SXGX14M1Y
	100% L.E.L.	4..20mA + Modbus	IMQ 15 ATEX 003 X	SXGX16M1Y
CO	0 .. 500 ppm	4..20mA + Modbus	IMQ 15 ATEX 003 X	SXCX11M1Y

Gas	Working Range	Output signal	Certificate	Cod
Methane	50% L.E.L.	4..20mA	IMQ 20 ATEX 006	SWMX1411
LPG	50% L.E.L.	4..20mA	IMQ 20 ATEX 006	SWGX1411
Hydrogen	20% L.E.L.	4..20mA	IMQ 20 ATEX 006	SWHX1211

COMMERCIAL RANGE TRANSMITTERS

Gas	Working Range	Output signal	Certificate	Cod
Methane	50% L.E.L.	4..20mA + Modbus	metallic	SYMN54B
LPG	50% L.E.L.	4..20mA + Modbus	metallic	SYGN54B
Hydrogen	0 .. 500 ppm	4..20mA + Modbus	metallic	SYCN51B

BASE RANGE TRANSMITTERS

Gas	Working Range	Output signal	Certificate	Cod
Methane	50% L.E.L.	4..20mA + Modbus	grey plastic	SYMN24B
		4..20mA + Modbus + Relè + Buzzer + LED	transparent plastic	SYMN04R
	100% L.E.L.	4..20mA + Modbus	grey plastic	SYMN26B
		4..20mA + Modbus + Relè + Buzzer + LED	transparent plastic	SYMN06R
LPG	50% L.E.L.	4..20mA + Modbus	grey plastic	SYGN24B
		4..20mA + Modbus + Relè + Buzzer + LED	transparent plastic	SY GN 04R
	100% L.E.L.	4..20mA + Modbus	grey plastic	SY GN 26B
		4..20mA + Modbus + Relè + Buzzer + LED	transparent plastic	SYGN06R
CO	0 .. 500 ppm	4..20mA + Modbus	grey plastic	SYCN21B
		4..20mA + Modbus + Relè + Buzzer + LED	transparent plastic	SYCN01R

All transmitters are compatible with the RYM02M0, RYM02M1, RYM02M2, RYK01M control units. There is only one exception: SW-X transmitters do not work with the RYK01M control unit.

INDUSTRIAL CONTROL UNIT FOR 8 ZONES

Industrial control unit for gas detection with 8 zones fit in IP44 capable of monitoring gas concentration up to maximum 8 zones. Possibility of connecting a 4 .. 20 mA transmitter in each zone for the detection of LPG, methane, carbon monoxide (CO) or petrol vapours.

Part Number	Description
RXA01M	Industrial control unit for gas detection with 8 zones

Technical Features	Description
Power supply	230V~ 50/60 Hz or 12Vdc with backup battery
Absorption:	15W max.
Activation time:	60 s.
Input (4..20mA):	1 for toxic gases 5 for flammable gases
Contacts rating:	5x3(1)A 250V~ SPDT
Protection rating:	IP 30 (acc. EN 60529)
Humidity limit:	20% .. 80% RH (non condensing)
Dimensions:	245x100x60 mm (LxHxD)



4 IN 2 OUT + RESET CONTROL UNIT

Control unit for gas leakage sensors; input for up to 4 remote sensors (1). Reset and test pushbuttons. Memory of the alarm state. 2 relay outputs.

Part Number	Description
RGI000MSX4	Control unit for gas leakage sensors

Technical Features	Description
Power supply	230V~ -15/+10% 50Hz
Output (relay)	2x6(2)A @ 250V~ SPDT
Indicators: active/fault/alarm	4 Green LEDs/blinking LED/4 red LEDs
Delay on e.v. relay	1 .. 90 sec.
Button 1	Test
Button 2	Reset
IP rating	IP54
Dimensions	H188 W230 D114mm

Notes: (1) The remote sensor used are: SGAMET, SGAGPL, SGIME1, SGIGP1, SGIME1M, SGIGP1M..
 (2) The back-up battery to be used is ACCSGB12.



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2 IN 2 OUT + RESET CONTROL UNIT

Control unit for gas leakage sensors with two relay outputs, inputs for 2 remote sensors (1). Reset button. IP54 case. For Non-classified ATEX zones.

Part Number	Description
RG1001MSX2	Control unit for gas leakage sensors with two relay outputs

Technical Features	Description
Power supply	30V~ -15/+10% 50Hz
Output 1 (relay x e.v.)	4(2)A @ 250V~ SPDT
Output 2 (relay x alarm)	4(2)A @ 250V~ SPST
Indicators: active/alarm1/alarm2	Green/red/red LED
Delay on e.v. relay	~15 sec.
Push button	Reset
Dimensions	H79 W134 D62mm
IP rating	IP 54

Notes: (1) The remote sensor used are: SGAMET, SGAGPL, SGIME1, SGIGP1, SGIME1M, SGIGP1M.
(2) The back-up battery to be used is ACCSGB12.

REMOTE SENSOR

Remote sensor for methane or LPG gas leakages. Semiconductor sensing element. Alarm threshold: 10% L.E.L. . Sensor life: 5 years. IP 54 case. Powered by control unit.



Part Number	Description
SGIME1	Per gas metano
SGIGP1	Per gas GPL

REMOTE SENSOR

Remote sensor for methane or LPG gas leakages. Semiconductor sensing element. Alarm threshold: 10% L.E.L. . Sensor life: 5 years. IP 54 case. 230V~ power supply.



Part Number	Description
SGIME1M	Per gas metano
SGIGP1M	Per gas GPL



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GS-AQ - INDOOR AIR QUALITY AND TEMPERATURE SENSOR

The GS-AQ series of air quality transmitters determine the air quality through measurement of Total Volatile Organic Compounds (TVOC's). This signal can be used to control fresh air fans and dampers according to the ventilation load. A valuable feature of this sensor is it automatically detects what the controller input is set to, 4-20mA or 0-10Vdc. This removes the requirement for output jumpers that can be inadvertently set incorrectly.

Part Number	Description
GS-AQ-S	Space Mounted Air Quality & Temperature Sensor

Technical Features	Description
Active Outputs	0-10Vdc or 4-20mA (3-wire) self-detecting
Output ranges	Air Quality: 0 to 1,000ppb TVOC Temperature: 0 to 40°C
Power Supply	24Vac/dc ±10%
Protection	IP30
Weight	180g

Part Number	Description
GS-AQ-D	Duct Mounted Air Quality & Temperature Sensor

Technical Features	Description
Active Outputs	0-10Vdc or 4-20mA (3-wire) self-detecting
Output ranges	Air Quality: 0 to 1,000ppb TVOC Temperature: -20 to +20°C
Power Supply	24Vac/dc ±10%
Protection	IP65
Weight	250g

NOTE:

* -T versions use a thermistor element. Please specify type when ordering. When using in space sensors, they are not compensated for self heating.

* Only available on Space Sensor Types.

** Plain front, no user interface option available (SP/MS/LCD)

Part Number	Description
-T *	Direct resistive temperature output
-SP *	11-1kΩ/0-10kΩ setpoint
-MS *	Momentary switch
-LCD	LCD display
-TR	Custom temperature range -20 to +50°C
-5V	Output 0-5Vdc (instead of 0-10Vdc)
-BLK**	Black space housing

Suffixes (add to part code)





GS-AQ-X-UN - SINGLE OUTPUT INDOOR AIR QUALITY SENSORS

A valuable feature of this sensor is its ability to automatically detect what the controller input is set to, 4-20mA or 0-10Vdc. This removes the requirement for output jumpers that can be inadvertently set incorrectly. On board LED indication of which output type is in operation is provided. Also available with a passive resistive output for temperature, along with other passive outputs.

Part Number	Description
GS-AQ-S-UN	Space Mounted Air Quality Sensor

Technical Features	Description
Active Outputs	0-10Vdc or 4-20mA (3-wire) self-detecting
Power Supply	24Vac/dc $\pm 10\%$
Output Range	0 to 10 (0 = good / 10 = poor)
Protection	IP30
Weight	200g

Part Number	Description
GS-AQ-D-UN	Duct Mounted Air Quality Transmitter

Technical Features	Description
Active Outputs	0-10Vdc or 4-20mA (3-wire) self-detecting
Power Supply	24Vac/dc $\pm 10\%$
Output Range	0 to 10 (0 = good / 10 = poor)
Protection	IP65
Weight	250g

ACCESSORIES

Part Number	Part Number	Description
DECOR		Decorators trim plate
GASKET		Insulating gasket (pack of 10)

NOTE:

* -T versions use a thermistor element. Please specify type when ordering. When using in space sensors, they are not compensated for self heating.

* Only available on Space Sensor Types.

** Plain front, no user interface option available (SP/MS/LCD)

Part Number	Description
-T *	Direct resistive temperature output
-SP *	1-11k Ω setpoint
-MS *	Momentary switch
-LCD	LCD display
-BLK**	Black space housing

Suffixes (add to part code)

GS-CO₂ - CARBON DIOXIDE, TEMPERATURE AND OPTIONAL RH & IAQ SENSORS

Using a NDIR sensor for measuring CO₂ concentrations and utilizing ABC (Automatic Baseline Correction) algorithm, they offer excellent long term stability & accuracy. Available with active temperature and RH outputs, as well as other passive outputs and user interfaces. A unique feature of this sensor automatically detects what the controller input is set to, 4-20mA or 0-10Vdc. This removes the requirement for output jumpers that can be inadvertently set incorrectly.

Part Number	Description
GS-CO2-S	Space Mounted Air Quality Sensor
GS-CO2-RHT-S	Space Mounted CO ₂ , RH and T Sensor 0-2000ppm
GS-CO2-AQ-S	Space Mounted CO ₂ , T and AQ Sensor 0-2000ppm

Technical Features	Description
Active Outputs	0-10Vdc or 4-20mA (3-wire) self-detecting
Power Supply	24Vac/dc ±10%
Output Range	0 to 10 (0 = good / 10 = poor)
Protection	IP30
Weight	200g

Part Number	Description
GS-CO2-D	Duct Mounted CO ₂ and T Sensor 0-2000ppm
GS-CO2-RHT-D	Duct Mounted CO ₂ , RH and T Sensor 0-2000ppm
GS-CO2-AQ-D	Duct Mounted CO ₂ , T and AQ Sensor 0-2000ppm

Technical Features	Description
Active Outputs	0-10Vdc or 4-20mA (3-wire) self-detecting
Power Supply	24Vac/dc ±10%
Output Range	CO ₂ : 0-2000ppm. Temperature: 0 to 40°C
Protection	IP65
Weight	250g

NOTE:

* -T versions use a thermistor element. Please specify type when ordering.

When using in space sensors, they are not compensated for self heating.

* Only available on Space Sensor Types.

** Plain front, no user interface option available (SP/MS/LCD)

Part Number	Description
-T *	Direct resistive temperature output
-SP *	11-1kΩ/0-10kΩ setpoint
-MS *	Momentary switch
-LCD	LCD display
-LED	3-Colour LED indication for CO ₂
-5V	Output 0-5Vdc (instead of 0-10Vdc)
-BLK**	Black space housing

Suffixes (add to part code)

Sontay®





GS-CO - CARBON MONOXIDE SENSORS

Sontay's range of CO sensors offer real time detection for Carbon Monoxide measurement. A valuable feature of this sensor is when in 3-wire mode it automatically detects what the controller input is set to, 4-20mA or 0-10Vdc. 2-wire loop powering selectable via DIP switch. The long life electrochemical Carbon Monoxide sensor makes it ideal for many applications including underground parking, loading bays and warehouses.

Part Number	Description
GS-CO-S	Space Mounted CO and T Sensor

Technical Features	Description
Active Outputs	0-10Vdc or 4-20mA (3-wire) self-detecting 4-20mA (2-wire) via DIP
Power Supply	24Vac/dc ±10%
Output Range	Carbon Monoxide 0 to 500ppm Temperature 0 to 40°C
Protection	IP30
Weight	200g

Part Number	Description
GS-CO-D	Duct Mounted CO and T Sensor

Technical Features	Description
Active Outputs	0-10Vdc or 4-20mA (3-wire) self-detecting 4-20mA (2-wire) via DIP
Power Supply	24Vac/dc ±10%
Output range	Carbon Monoxide 0 to 500ppm Temperature 0 to 40°C
Protection	IP65
Weight	250g

NOTE:

* -T versions use a thermistor element. Please specify type when ordering. When using in space sensors, they are not compensated for self heating. This range of Carbon Monoxide Sensors is designed for monitoring purposes and should not be used in safety applications.

* Only available on Space Sensor Types.

** Plain front, no user interface option available (SP/MS/LCD)

Part Number	Description
-T *	Direct resistive temperature output
-SP *	11-1kΩ/0-10kΩ setpoint
-MS *	Momentary switch
-TR	Custom temperature range -20 to +50°C
-5V	Output 0-5Vdc (instead of 0-10Vdc)
-BLK**	Black space housing

Suffixes (add to part code)

CO₂, CO, VOC TRANSMITTERS

This series with automatic calibration sets new standards in CO₂ measurement for HVAC applications. It combines the measurement of the carbon dioxide level, temperature and relative humidity. Models with or without display are available.

Part Number	Description	Output signal	Accuracy, temperature
TCO2A	CO ₂ + °C	0...10 V + 0...10 V	± 0.4 °C
TCO2A-D	CO ₂ + °C	0...10 V + 0...10 V	± 0.4 °C
TCO2A-M	CO ₂ + °C	Modbus	± 0.4 °C
TCO2A-D-M	CO ₂ + °C	Modbus	± 0.4 °C
TCO2AU	CO ₂ + °C + RH	0...10 V + 0...10 V + 0...10 V	± 0.4 °C
TCO2AU-D	CO ₂ + °C + RH	0...10 V + 0...10 V + 0...10 V	± 0.4 °C
TCO2AU-M	CO ₂ + RH + °C	Modbus	± 0.4 °C

Full range of configurations available on request

Technical Features	Description
Supply voltage	24 V AC ± 10 %, 50...60 Hz / 15...35 V DC
Working range, CO ₂	0...2000 ppm
Working range, temperature	0...50 °C
Working range, humidity	10...90 % RH (non-condensing)
Relay output	Max. 1 A at 50 V AC, min. 1 mA at 5 V DC
Protection class	IP30

CO₂ TRANSMITTER, AIR DUCT MOUNTING

Measures the concentration of carbon dioxide in ducts. Exempt from periodic calibration. Some models are equipped with a passive temperature sensor.

Part Number	Description	Output signal	Accuracy, temperature
TCO2C	CO ₂	0...10 V	-
TCO2C-05	CO ₂	0...5 V	-
TCO2C-PT100	CO ₂ + PT100, 100 Ohm (0°C)	0...10 V + Ohm	± 0.3 °C
TCO2C-NTC10-01	CO ₂ + NTC 10, 10 kOhm (25°C)	0...10 V + Ohm	± 0.2 °C

Full range of configurations available on request

Technical Features	Description
Supply voltage	15...35 V DC / 24 V AC ± 10% 50-60 Hz
CO ₂ sensor	NDIR (Non-Dispersive Infrared Technology)
Output	0...10 V DC or 0...5 V DC, RL > 10 kOhm
Working range, CO ₂	0...2000 ppm
Working range, temperature	0...+50 °C
Working range, humidity	10...90 % RH (non-condensing)
Max. air velocity	10 m/s
Insertion length	60...230 mm
Dimensions	75 x 77 x 36 mm (housing)
Protection class	IP65 case (sensor excluded)





CARBON MONOXIDE TRANSMITTER

This device measures the carbon monoxide concentration using an electrochemical method of measurement characterised by high selectivity even in low concentrations. It is installed for both safety and energy-saving reasons. The output signals are linear representations of the gas concentration.

The transmitter is TÜV-approved in accordance with VDI 2053.

Part Number	Description
TCO1	CO transmitter

Technical Features	Description
Supply voltage	12...28 V DC
Measuring range	0...300 ppm
Outputs	4...20 mA, two-wire / 0...10 V DC, three-wire
Calibration	Automatic zero adjustment
Dimensions	80 x 82 x 86 mm
Protection class	IP56

ROOM AIR QUALITY TRANSMITTERS, VOC

Analysis of the air quality based on a mixed gas VOC (Volatile Organic Compounds) sensor.

Detectable gases:

- carbon monoxide CO
- hydrogen sulfide H₂S
- solvent vapours
- cigarette smoke
- car exhaust
- air produced by human breathing
- combustion smoke from wood, paper and plastics.



Part Number	Description	Application
DB-RLQ	0...10 V DC, 0...20 mA, 4...20 mA	Room
DB-RLQ5	0...5 V DC, 0...20 mA, 4...20 mA	Room

Technical Features	Description
Supply voltage	15...36 V DC or 24 V AC/DC ± 10%, 50-60 Hz
Outputs	0...10 V DC, 0...20 mA or 4...20 mA, selectable by jumpers
Sensor	VOC
Ambient temperature	0...50 °C
Ambient humidity	10...90 % RH (non-condensing)
Storage temperature	-20...+50 °C
Storage humidity	< 95 % RH
Casing	Plastic material similar to RAL 9010
Weight	80 g
Dimensions	75 x 75 x 25 mm
Protection class	IP30 (case)
Isolation class	III
Certification	EN 60335-1: safety / EN 60529: IP degree of protection / EN 60730: domestic controls

AIR QUALITY & GAS

A comprehensive selection of air quality & gas measuring products that are designed and manufactured for long-term stability and performance. Each product provides a repeatable and accurate output signal for efficient air quality & gas monitoring and control.

CARBON DIOXIDE

CE, CD, CDD4 Series

FEATURES

- Menu driven set-up
- 0-2,000 scalable to 20,000 PPM CO₂
- NDIR, dual channel
- Optional temperature sensor outputs
- Guaranteed 5 year calibration interval
- Easily field calibrated

PRODUCT TYPES

- Room
- Duct
- Outside



CARBON DIOXIDE, TEMPERATURE AND HUMIDITY

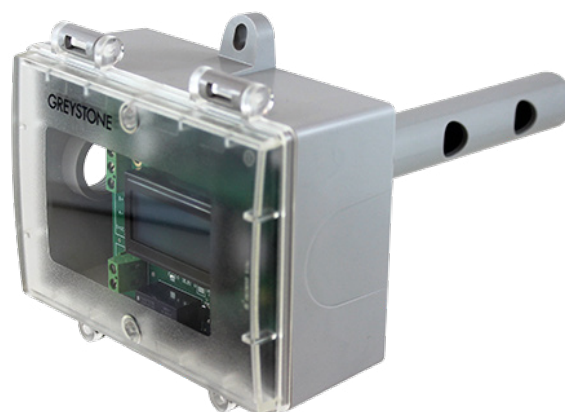
CDD3, CDD5, CHT Series

FEATURES

- Outputs CO₂, Temperature, & RH Levels
- Menu driven set-up
- 0-2,000 scalable to 10,000 PPM CO₂
- NDIR, dual channel
- Guaranteed 5 year calibration level
- Easily field calibrated
- Analog, BACnet® or Modbus output

PRODUCT TYPES

- Room
- Duct



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PARTICULATE MATTER

PM Series

FEATURES

- Selectable PM1, 2.5, 4 & 10 Particle Sizes
- 0 - 1000 ug/m3 range
- LCD displaying PM level
- Tri-color LED to indicate IAQ level
- Analog, BACnet® or Modbus output
- Field replaceable sensor

PRODUCT TYPES

- Room
- Duct
- Outside



CARBON MONOXIDE/ NITROGEN DIOXIDE

GDT, CMD, NDD Series

FEATURES

- selectable ranges up to 500 ppm CO or 10 ppm NO2
- Single or dual gas monitoring
- Combination or remote sensor
- Replaceable electrochemical sensing pods
- Analog, BACnet® or Modbus output
- Optional alarm relays with field adjustable trip point
- Optional audible and visual alarm indication
- Optional temperature output
- Easy to calibrate in the field

PRODUCT TYPES

- Surface
- Duct



	Part Number	Description
Product	CMD5B1	Wall/Surface Mount Carbon Monoxide Detector
Relay Option	000 100	No Relay With Relay (Not available with Modbus communications)
Options	- 010 MOD	Leave blank for 4-20 mA 0-10 Vdc output Modbus communications



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DUCT SMOKE DETECTOR

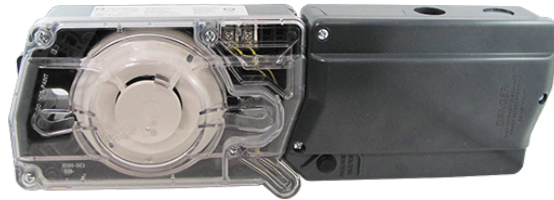
DSD Series

FEATURES

- Simple change-out of photoelectric detector heads
- Low flow air velocity rating from 100 to 4000 FPM
- UL, CSFM, and MEA listed
- Two sets of 10A form "C" alarm contacts
- One set of 10A form "C" trouble contacts
- Clear cover for convenient visual inspection
- Built-in reset switch/alarm test switch

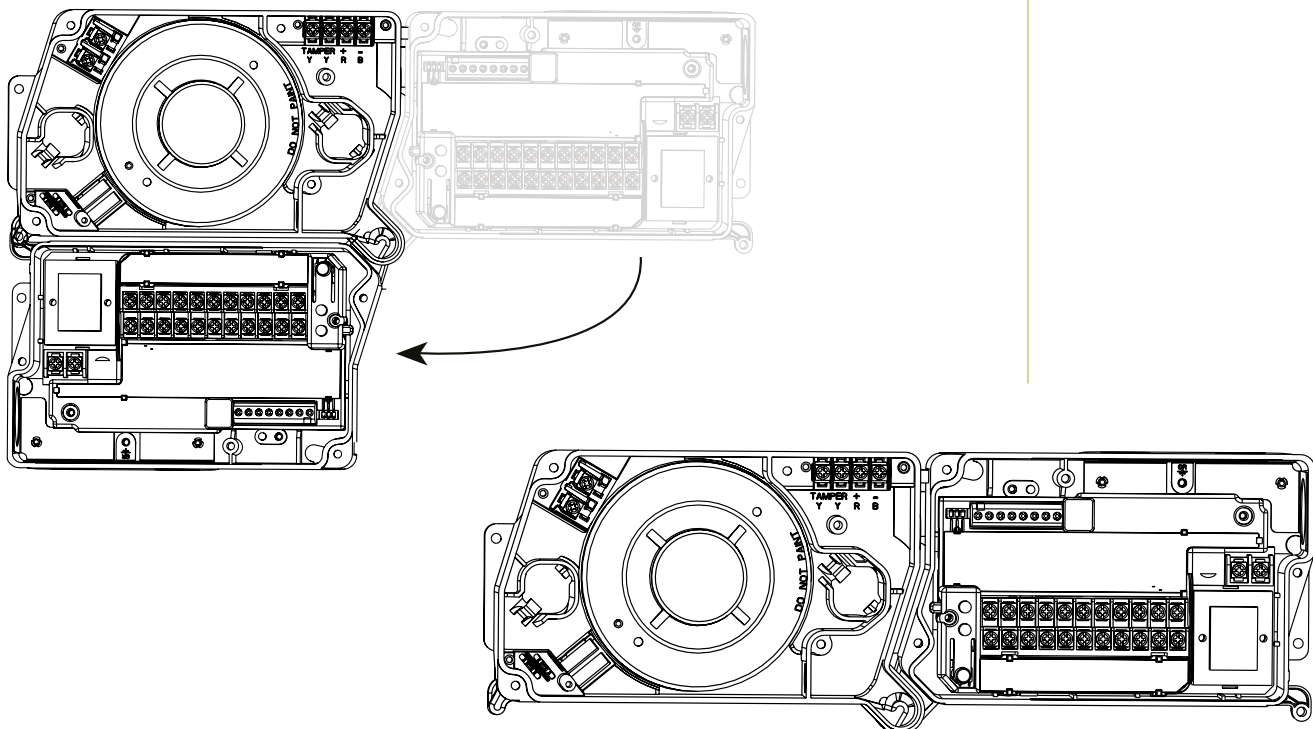
PRODUCT TYPES

- Duct



	Part Number	Description
Product	DSD	Duct Smoke Detector, Photoelectric
Power Supply	120 240	120 Vac, 24 Vac/Vdc 240 Vac, 24 Vac/Vdc

	Part Number	Description
Product	DST-	Metal Duct Sampling Tube for DSD Series
Power Supply	1.0 1.5 3.0 5.0 10.0	Duct widths up to 305mm (12") Duct widths between 305mm - 610mm (12" - 24") Duct widths between 610mm - 1200mm (24" - 48") Duct widths between 1200mm - 2400mm (48" - 96") Duct widths between 2400mm - 3700mm (96" - 144")





GAS DETECTION & ISOLATION CONTROLLERS

S&S Northern have a solution for every commercial Plant room application. We offer a wide range of control panels, gas detectors, heat sensors and gas solenoid valves. Whether your project is a small residential application or a large scale plant room we have the knowledge and experience to offer the perfect products. Remote monitoring, Modbus and data logging are available on our GDPX Range.

Part Number	Description
1000BH	2 Zone gas detection & gas proving system

FEATURES

- 2 zone gas detection system for up to 6 gas detectors
- Can accept inputs from remote push buttons, fire alarms & heat detectors
- Built-in connectivity to existing BAS/BMS system
- Gas pressure proving - low & high pressure shut off

Part Number	Description
GDP2	2 Zone gas detection system
GDP2X	8 Zone gas detection system

FEATURES

- 8 zone gas detection system for up to 8 gas detectors
- TFT screen displays live gas levels & system indications (GDP2X only)
- Can accept inputs from remote push buttons, fire alarms & heat detectors
- Built-in connectivity to existing BAS/BMS systems

Part Number	Description
TFT CO/NG	Dual gas detection system - TFT colour screen CO & Nat Gas
TFT CO/LPG	Dual gas detection system - TFT colour screen CO & LPG

FEATURES

- Emergency Shutdown of Gas & Boilers
- Compact Adaptable Design provides safety and assurances
- Individual relay outputs per gas
- Clear digital display
- Can accept inputs from remote push buttons, fire alarms & heat detectors

Part Number	Description
IBC 1/2" GAS VALVE	230v 4 Test Point Gas Solenoid
IBC 3/4" GAS VALVE	230v 4 Test Point Gas Solenoid
IBC 1" GAS VALVE	230v 4 Test Point Gas Solenoid
IBC 1 1/4" GAS VALVE	230v 4 Test Point Gas Solenoid
IBC 1 1/2" GAS VALVE	230v 4 Test Point Gas Solenoid
IBC 2" GAS VALVE	230v 4 Test Point Gas Solenoid

FEATURES

- IP54 Rated
- LED indicator when powered
- Have 1/4" BSP downstream port for our gas proving systems

EDUCATION / SCIENCE LABORATORY GAS PROVING

S&S Northern have a range of gas proving systems for educational establishments. Our systems protect Laboratories, food tech and design tech classrooms. We also have products that protect laboratories that have speciality or high pressure gases.

Single, Dual or Triple utility gas pressure proving & isolation system designed specifically for use in School and University Laboratories. Most commonly used to control gas, electric & water.

Part Number	Description
1000V	Gas proving & optional ventilation Interlocking c/w pressure transmitter
1000V+	Gas proving, electrical isolation & optional Ventilation interlocking c/w pressure Transmitter
1000VW+	Gas proving, electrical isolation & optional Ventilation interlocking c/w pressure Transmitter

The pressure transmitter provides a pressure drop analysis on the gas line upon each activation of the gas proving system. This ensures all gas taps and appliances are closed before gas into the space. The pressure drop test also ensures all pipe work is intact and free from fault or damage. this simple 30 second test provides a unique safe start up environment for the user.

Part Number	Description
Pressure Transmitter	Gas pressure proving transmitter (supplied With all merlin gas proving systems)
EM STOP BUTTON	Remote em stop button yellow, shrouded c/w Reset key

KITCHEN VENTILATION INTERLOCKING SYSTEMS

S&S Northern have a range of gas interlock and environmental monitors to meet all of the latest gas and ventilation regulations for commercial kitchens. We have industry leading range of products, from a simple gas interlock system to our advanced demand controlled kitchen ventilation systems and environmental monitors.

Ventilation interlock system specifically designed for use in commercial kitchens to meet BS6173

Part Number	Description
2000S	Gas Ventilation Interlock - Gas Proving - Air PD & Current Sensing C/W Pressure Transmitter
CT1250	Gas Ventilation Interlock With Two Built In Current Monitors
CT1200S	Gas Ventilation Interlock - Air PD Compatible
PM2+	2 Channel current sensor for merlin interlock panels

Part Number	Description
930-80	Air PD Switch 20-300 PA
DUCT KIT	To Suit 930-80



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