



GAS SAFETY IN EVERY ENVIRONMENT.

**The UK's leading designer, manufacturer and supplier of
the latest range of gas safety products.**

Ranges include; gas ventilation and gas interlock systems for use in commercial kitchens, gas pressure proving systems and gas detection systems for school laboratories and boiler houses.
Designed and manufactured in the UK.



38 Years Industry Experience



Easy to Install Solutions



3 Year Product Warranty



24/7 Tech Back Up



Fully Trained Sales Engineers



Express Delivery Available

Office information

For your local sales manager visit snsnorthern.com/reps



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Product key features

The benefits of each of our products are illustrated in an icon format throughout this brochure, aiding you to select the product and design features most suited for your requirements.

The icons are located at the top of each product page with accompanying detail for ease of reference and comparison of the solutions we have available.

If you have any questions about any products and their features please contact info@snsnorthern.com.





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Kitchens

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.

Merlin 3000S System



Energy saving
variable
ventilation



Gas proving
feature



Solid fuel
protection



Designed to
DW172, BS6173
& IGEM/UP19
standards



Extraction
system that
minimises
heat loss

ENERGY SAVING
DEMAND
CONTROLLED
VENTILATION
SYSTEM



The Merlin 3000S energy saving system is a combined demand controlled ventilation system with built in gas interlock and optional gas proving.

The 3000S system automatically adjusts the speed of the ventilation based on the kitchen environment.

The ventilation is automatically controlled based on the carbon dioxide levels, smoke/steam present in the canopy, carbon monoxide, real time gas usage and temperature.

This system can offer large financial savings and short payback periods for any commercial kitchen.

Additional features

Saves energy by varying the ventilation speed via 0-10v DC output. This reduces manual ventilation control.

OFTEN
USED
WITH

Gas Solenoid
valve
Page 50

PM2+ Current
Monitor
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Monoxide
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Thermostat
Page 54

TBX Gas Meter
Page 54

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Page 55

*Please note before ordering the ventilation system / inverter must accept a 0-10v DC control signal.

Merlin CT1750 System



Ventilation
control for up to
two fans



Gas proving
feature*



Out of hours
Solid fuel
protection



Designed to
DW172, BS6173
and IGEM/UP19
standards



Fire Alarm
Input & BMS
Output



External gas
detector

OFTEN
USED
WITH

Gas Solenoid
valve
Page 50

PM2+ Current
Monitor
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CO2-X
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Carbon
Monoxide
detectors
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Inverter
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The Merlin CT1750 System is a gas interlock and manual ventilation control system designed for commercial kitchens. The Merlin CT1750 System comes with two variable fan speed controllers (0-10V output) to control the speed of 2 fans via an inverter.

The Merlin CT1750 System works with carbon dioxide monitors and carbon monoxide detectors to increase the speed of the ventilation when these gases are present, both in and out of working hours.

*Please note before ordering the ventilation system / inverter must accept a 0-10v DC control signal.

Commonly used in kitchens with solid fuel appliances.

Additional features

Can control the ventilation via 0-10V output.

*Transmitter supplied separately

SOLID FUEL
GAS SAFETY
SYSTEM

Merlin CT1650+ System



Monitor up to four fans

Built in LCD current monitors

Suitable with both single phase and three phase fans

Designed to BS6173 & IGEM/UP19 standards

Fire Alarm Input & BMS output

INTELLIGENT CURRENT MONITORING INTERLOCK SYSTEM



The Merlin CT1650+ System is a current monitoring interlock system for commercial kitchens. This comes with two built in intelligent current monitors.

The Merlin 1650+ has the facility to interlock with two additional fans via remote current monitors PM2+ / CS1-2) or air pressure differential switches. The 1650+ is commonly used with a carbon dioxide monitor.

Additional features

- Intelligent Current Monitors to set "high" and "low" parameters.
- Current Monitors parameters 0.2amp to 20amp.
- Adjustable sensitivity threshold to reduce nuisance drop outs.
- Fan start stop output (12v output when on).

OFTEN USED WITH

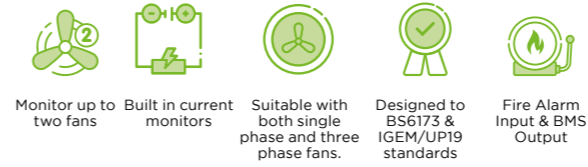
Gas Solenoid valve
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CO2-X
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Emergency Stop
Page 48

Speed Controller
Page 55

Merlin CT1250 System



Monitor up to two fans

Built in current monitors

Suitable with both single phase and three phase fans.

Designed to BS6173 & IGEM/UP19 standards

Fire Alarm Input & BMS Output

OFTEN USED WITH

Gas Solenoid valve
Page 50

Emergency Stop
Page 48

Speed Controller
Page 55



The Merlin CT1250 System is a current monitoring interlock system for commercial kitchens. This comes with two built in current monitors. This is a simple, cost effective system.

Additional features

- Current Monitors parameters 0.3.amp to 20amp.
- 10 Second Nuisance Tripping Delay

CURRENT MONITORING INTERLOCK SYSTEM

Merlin CT1200S System

- 
 Monitor up to two fans
- 
 Integral Emergency Stop
- 
 Designed to BS6173 & IGEM/UP19 standards
- 
 Fire Alarm Input & BMS output

**GAS INTERLOCK SYSTEM
(2 FAN INPUTS)**



The Merlin CT1200S System is a gas interlock system for commercial kitchens. This can monitor ventilation using air pressure differential switches or external current switches.






Additional features

- Facility to interlock using current switches or air pressure differential switches.
- 10 Second Nuisance Tripping Delay

OFTEN USED WITH

- Gas Solenoid valve
Page 50
- Air Pressure Differential Switch
Page 50
- Emergency Stop
Page 48
- Speed Controller
Page 55

Merlin 2000S System

- 
 Monitor up to four fans
- 
 Gas proving feature*
- 
 Designed to BS6173 & IGEM/UP19 standards
- 
 Fire Alarm Input & BMS Output
- 
 External gas detector

OFTEN USED WITH

- Gas Solenoid valve
Page 50
- Merlin CO2-X
Page 40
- Merlin Gas Detectors
Page 42-43
- PM2+ Current Monitor
Page 52
- Air Pressure Differential Switch
Page 50



The Merlin 2000S System is a ventilation interlock and gas proving system for commercial kitchens.

The Merlin 2000S comes with a gas pressure transmitter included for commercial kitchens where gas appliances don't have flame failure devices. The Merlin 2000S System works with external current monitors or air pressure differential switches, the system can also interface with various gas detectors.

Additional features

- Facility to interlock using external current switches or air pressure differential switches (4 fans)
- Works with gas detectors and Carbon monoxide monitors
- *Transmitter included

**GAS PROVING SYSTEM
(4 FAN INPUTS)**

Merlin 1500S System



Integral
Emergency
Stop



Designed to
BS6173 & IGEM/
UP19 standards



Fire Alarm
Input & BMS
Output



External gas
detector

GAS INTERLOCK
SYSTEM
(4 FAN INPUTS)



Merlin 1500S System can be used with external current monitors or air pressure differential switches.

Additional features

- Facility to interlock with external current switches or air pressure differential switches (4 fans)
- Works with Carbon Dioxide and Carbon monoxide monitors

OFTEN
USED
WITH

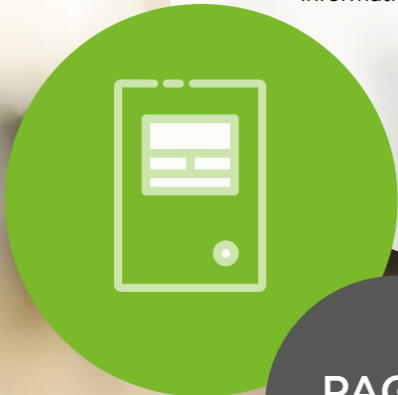
Gas Solenoid
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Merlin CO2-X
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PM2+ Current
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Air Pressure
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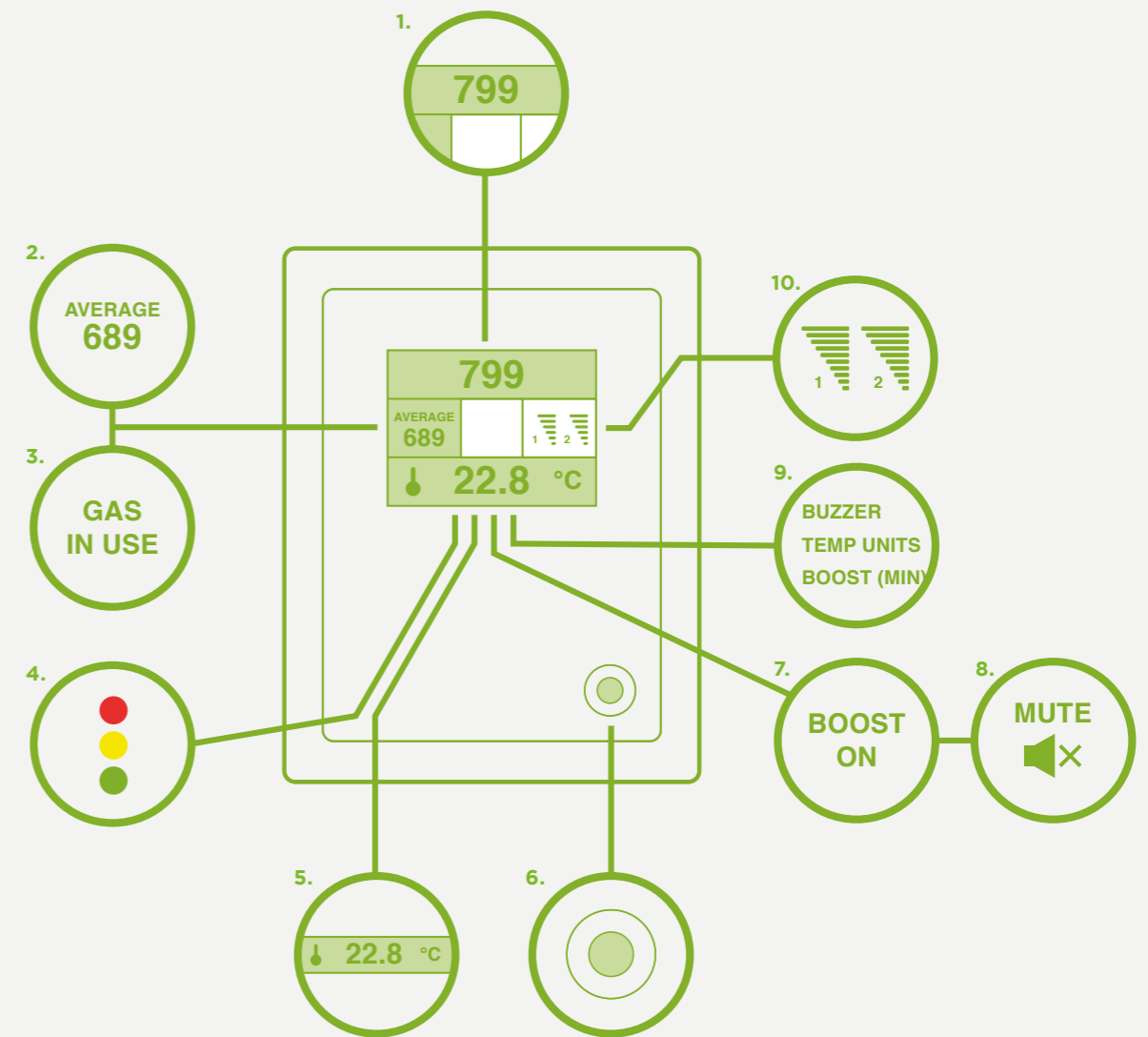
Detectors

S&S Northern manufacture a wide range of gas detectors for monitoring air quality, toxic gases, explosive and flammable gases. They are designed to be easy to install and maintained. Each target gas has unique characteristics and therefore the detector needs to be installed to suit the target gas, please contact us or have a look on our website for mounting height information and advice on installation.



**SIMPLE,
EFFICIENT &
RELIABLE**

Carbon Dioxide and temperature monitor



- ✓ Dual power 230V AC or 12-24V AC/DC
- ✓ Modern design with a slim and compact enclosure

1. CO2 Levels

Displays current c02 gas levels in parts per million (ppm).

2. Average CO2 Levels

Average c02 readings over an 8 hour period when above 600ppm.

3. Gas in use

Indication when the gas is being used.

4. Traffic light indicator

Display changes colour dependent on the c02 levels and temperature. Green-Safe, Yellow-Attention, Red-Danger.

5. Temperature reading

Displays temperature levels over 30 minuet periods.

6. Touch button

Used to activate 'Boost' or 'Mute'.

7. Boost on

Analogue outputs will run at optimum voltage (10V) to run a fan.

8. Mute

Sounder alarm mute indication.

9. Easy installation

Engineers settings menus for easy navigation

10. 0-10V Outputs

0-10V analogue outputs progress bars

CO2-X Monitor



Clear digital display



Designed specifically for BB101



Automatic alarm



12V DC, 24VDC or 230V AC powered.



Fan controller enabled relay output

CARBON DIOXIDE MONITOR



The CO2-X is a dual powered carbon dioxide and temperature monitor, which has the ability to show average readings over an 8 hour period.

Additional features

- Can automatically change alarm settings based on gas valve activation
- CO2 and temperature levels measured and displayed clearly.

- 2 x 0-10V Signal output.
- Displays average readings of CO2 concentration over an 8 hour period.
- End of life and fault notifications.
- Pre alarm and alarm output.
- Variable CO2 and temperature output

OFTEN USED WITH

Merlin 2000S
Page 15

Merlin 1000VW+
Page 22

Merlin 1000S
Page 27

Merlin CO2-C1



Clear digital display with traffic light feature



Designed to IGM/UP11 standards



Mains powered

OFTEN USED WITH

Merlin 2000S
Page 15

Merlin CT1650+
Page 12

Merlin 1000VW+
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Merlin 1000S
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The budget friendly Merlin CO2-C1 detector is a mains powered monitor to give the end user simplified analysis of the carbon dioxide levels in the surrounding area. The Merlin CO2-C1 has a traffic light colour system (red, amber, green) with high, medium, low indications.

Additional features

- Traffic light display to clearly indicate low, medium and high levels of CO2.
- Low voltage switch when levels of carbon dioxide increase
- Mains powered

CARBON DIOXIDE MONITOR (NO SCREEN)

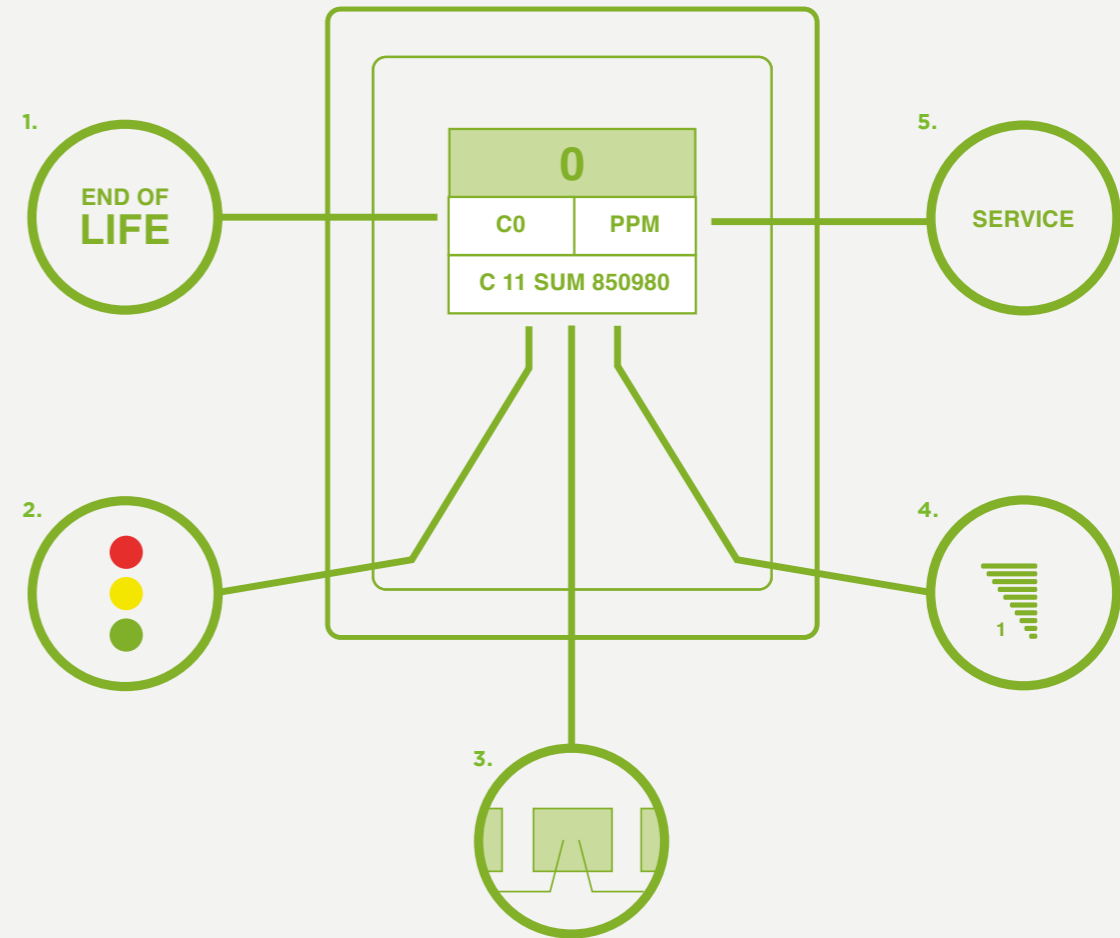
OFTEN
USED
WITHMerlin GDPX+
Page 18Merlin GDP2X
Page 20Merlin 1000BH
Page 21

PRE-CALIBRATED AND COMPACT

GAS SENSOR TYPE	NG: Semi-conductor	MEASURING RANGE	NG:300-10,000 PPM
	LPG: Semi-conductor		LPG:300-10,000 PPM
	H: Semi-conductor		H: 100-10,000 PPM
	CO: Electro-chemical		CO: 10-10,000 PPM
	O2: Electro-chemical		O2: 0-30%
GAS LEVEL PRE-ALARM	NG: 8% LEL	GAS LEVEL ALARM	NG: 10% LEL
	LPG: 8% LEL		LPG: 10% LEL
	H: 8% LEL		H: 10% LEL
	CO: 20 PPM		CO: 30 PPM @ 2 HOURS 50 PPM @ 1 HOUR 100 PPM @ 10 MINS 300 PPM @ 1 MINS
	O2: 18.5-19.5%		O2: <18.5% / >23%
EXPECTED SENSOR LIFE	NG: 10 Years		
	LPG: 10 Years		
	H: 10 Years		
	CO: 5 Years		
	O2: 3 Years		

Gas Detectors

The S&S range of gas detectors are used in various applications such as boiler/plant rooms, hospitals, laboratories and high rise buildings.



- ✓ Modern design with a slim and compact enclosure
- ✓ No calibration required - pre-calibrated in the factory
 - ✓ Power supply 12-24V AC/DC
- ✓ Various outputs to work with control panels
- ✓ Connections available for Modbus outputs

1. End of life indicator

To alert the user that the detector has reached its expected operational lifecycle.

2. Traffic light indicator

To summarise gas levels: display changes colour dependent on live gas levels. Green-Safe, Yellow-Attention, Red-Danger.

3. Multiple detector chains

Individually identify each detector and the monitoring zone the detector is located.

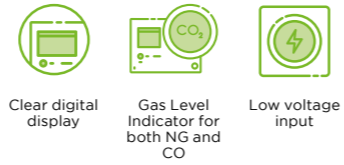
4. Gas levels

Displays current gas levels in parts per million (ppm) or low explosion level (LEL) dependent on the gas detector type. Levels visible at all time.

5. Service & Maintenance

A service screen will intermittently flash every 30 seconds after one year of service.

Mini Merlin CH4CO TFT



Clear digital display

Gas Level Indicator for both NG and CO

Low voltage input

COMBINED
NATURAL GAS
& CARBON
MONOXIDE
DETECTOR



The Mini Merlin CH4CO TFT for domestic applications.

The Mini Merlin CH4CO TFT is a dual gas sensor carefully designed and tested to monitor levels of natural gas-Methane (NG) and Carbon Monoxide (CO) in the air. If there is a dangerous build-up of gas or unsafe levels of carbon monoxide at the sensor, this device can shut off the gas supply via a gas safety valve.

Additional features

- Dual sensor built into one controller
- End of life notification
- Shuts off gas when in high alarm
- Low voltage input to connect with emergency stops and fire alarms.
- Pre alarm and alarm output
- Variable CO2 and temperature output
- LPG & CO detector available

OFTEN
USED
WITH

Gas Solenoid Valve
Page 50

Emergency Stop
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Fusible Link
Page 49

Bump Kits



We offer a full range of bottled test gases and testing equipment. The Bump kits are used to check and maintain gas detectors.

- Carbon Monoxide
- Methane
- LPG
- Nitrogen

Others available on request.

GAS DETECTOR
TESTING /
CALIBRATION



Ancillaries

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FAB-1 Fire Alarm bypass



Merlin
GDP-2
Page 33

Merlin
1000BH
Page 32

OFTEN
USED
WITH

The Merlin FAB1 can be integrated with any of the Merlin suite of products to give the operator the opportunity to temporarily bypass the gas isolation system. With prior notice to a fire alarm test, the operator can turn the key to the on position giving an uninterrupted gas supply for between 10 and 45 minutes.

During this time the system controlling the gas will ignore shut-off signals from the buildings fire alarm system and allow factors such as heating systems to remain operational. The bypass time can be adjusted using the blue switches inside the panel. During the bypass time gas can still be shut off, pressing the emergency gas shut off button will close the gas solenoid valve.

Emergency Stop



Merlin
2000S
Page 15

Merlin
3000S
Page 10

Merlin
1000VW+
Page 22

OFTEN
USED
WITH

The Emergency Stop button is used to isolate the gas supply into an area in the event of emergency.

The button is fitted with a Perspex screen which should be pressed to activate, and then can be reset using a key (supplied with every emergency knock-off button). This button can be linked with any Merlin gas safety system to give various means of isolation within an area.

OFTEN
USED
WITH

Merlin
GDP2X
Page 31

Merlin
1000BH
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Merlin
GDP2
Page 33

Merlin
GDPX+
Page 30

Fusible Link



The fusible link is most commonly used in a boiler room application. These are fitted as a means of fire protection, if the boiler room temperature reaches over 72 degrees then the fusible wire inside will melt and therefore send an electronic signal to isolate the gas supply. Multiple fusible links can be fitted in one area.

Sounder Alarm Beacon



OFTEN
USED
WITH

Merlin
GDP2X
Page 31

Merlin
GDPX+
Page 30

Merlin
GDP2
Page 33

The Sounder Alarm Beacon is a remote alarm beacon most commonly used outside a boiler room. This sounder alarm beacon can give both an audible and visual alarm in the event of an emergency. Various colours are available to suit the application.

Air Pressure Differential Switch

Merlin
CT1200S
Page 14

Merlin
1000V+
Page 23

OFTEN
USED
WITH



An air pressure differential switch is a mechanical switch fitted in ductwork which can be used to monitor and check airflow rates. These switches are adjustable and have a range from 20-300PA, they also come with a 1m duct kit to be fitted into the ductwork and detect the airflow.

Gas Solenoid Valve

Merlin
1000BH
Page 32

Merlin
1000S
Page 27

Merlin
2000S
Page 15

OFTEN
USED
WITH



Our gas solenoid valves are 230V powered, normally closed, auto-reset and will most commonly be powered from our Merlin gas safety systems. In the event of an emergency, the Merlin gas safety system will take power away from the gas solenoid valve causing it to slam shut, and when power is re-instated this will then allow gas to flow through the pipework.

We have a full range of sizes available, both screwed and flanged, and can offer specialist gas valves on request.

Water Solenoid Valve

OFTEN
USED
WITH

Merlin
1000VW+
Page 22

Merlin
1000SW+
Page 25



Our water solenoid valves are most commonly found in science laboratories where the teachers want full control of the water supply to the benches, but they can be used in a range of applications.

Similar to a gas solenoid valve, our water solenoid valves are normally closed, auto-reset and 230V so they can be controlled by the Merlin gas safety systems.

Once again, we have a full range of sizes available, WRAS approved and can offer specialist types on request.

Pressure Transducer

OFTEN
USED
WITH

Merlin
GDPX+
Page 30

Merlin
1000S
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Merlin
2000S
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A transmitter used to check for leaks in the gas line, by detecting pressure drops from the downstream port of the gas solenoid valve.

DPM2

Merlin
2000S
Page 15

Merlin
1000S
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Merlin
1000BH
Page 32

OFTEN
USED
WITH



The DPM-2 is a dual pressure monitor which enables connection of two gas solenoid valves and two pressure sensors to any Merlin gas proving panels.

PM2+

Merlin
2000S
Page 15

Merlin
3000S
Page 10

Merlin
CT1750+
Page 11

OFTEN
USED
WITH



The Merlin PM2+ Current Monitor is a dual fan current monitor and is to be used in conjunction with the Merlin systems: the unit can be used as an alternative to an air pressure differential switch.

CS1/CS2

OFTEN
USED
WITH

Merlin
CT1200S
Page 14

Merlin
1000V
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Merlin
CT1650+
Page 12

The Merlin CS1 & CS2 Current Switch is to be used in conjunction with the Merlin range of ventilation interlock systems and can be used as an alternative to air pressure differential switches.

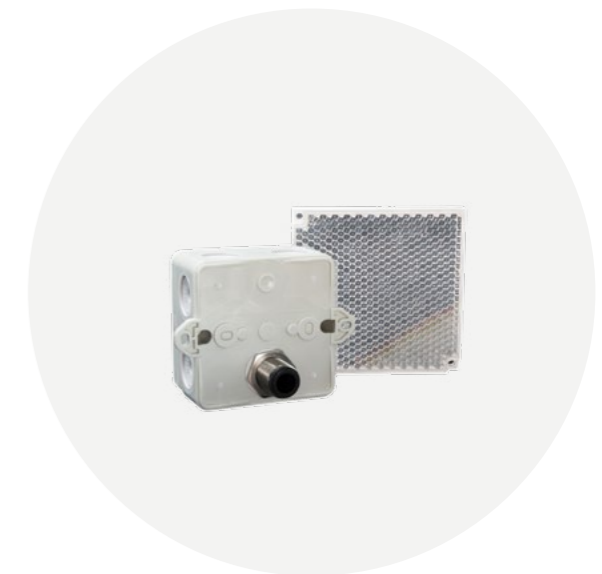


OFTEN
USED
WITH

Merlin
3000S
Page 10

Optical Sensor

The Optical Sensor emits a beam across the kitchen canopy, if the beam is interrupted by excess smoke/steam it will send a signal back to the control panel.



Duct Thermostat



Merlin
3000S
Page 10

OFTEN
USED
WITH

The Duct Thermostat provides a control signal back to the Merlin control panel depending on the temperature in the duct work.

As the duct temperature becomes too hot the Merlin control system can increase ventilation.

Inverter



We can offer a range of single phase and three phase inverters. These can be used with our control panels such as the Merlin 1750 and Merlin 3000S. They offer an efficient method of controlling fan motors.

Speed Controller



We stock a full range Electronic fan speed controllers. This range of fan speed controllers can be used with most Fans / Motors which is single phase - 240 volts and fan speed controllable using either 2 or 3 wire control.

TBX Gas Meter



The TBX gas meter is a precise way of monitoring the amount of gas being used in any application. The TBX provides a pulsed output which can be interpreted by our merlin control units or a BMS system.

Spec Wizard

Ensure your project has the correct equipment

Here at S&S Northern we ensure your project is meeting all the latest gas regulations and recommendations.

As part of our dedication to continual progress and development, the S&S Northern team has developed the pioneering Spec Wizard. Spec Wizard is a dynamic resource that significantly reduces a consultant's workload by searching for and identifying the most appropriate equipment for a project, location or specification.

By simply answering questions from the drop down menu, Spec Wizard will instantly generate the ideal specification a consultant needs to meet various gas regulations on their project.

Spec Wizard will then create and email an equipment list which can then be directly used within a specification document, saving hours of time and money during the research and sourcing stages.

For help with the Spec Wizard or if you would like one of S&S Northern's technically trained sales engineers to explain the process over the telephone, please call us on +44 (0) 1257 470 983

Book Your Free CIBSE Accredited Webinar.

Do your projects include Boiler/PlantRooms? Laboratories? Commercial kitchens? Receive up to date knowledge of Gas Safety Regulations.



The CPD session will cover the following 4 areas:

BB100 & IGEN
UP/2 - GAS
SAFETY IN
BOILER HOUSES
/ PLANT ROOMS

IGEM UP/11 EDITION 3
(2018) - GAS CONTROL
IN EDUCATIONAL
ESTABLISHMENTS,
SUCH AS FOOD
TECHNOLOGY ROOMS
AND LABORATORIES

BS6173:2009 &
DW172 2018 - GAS
INTERLOCKING
FOR COMMERCIAL
KITCHENS

IGEM UP/19 - CO2
MONITORING FOR
COMMERCIAL
KITCHENS



[SNSNORTHERN.COM/CPD](https://www.snsnorthern.com/cpd)

S&S Northern is a friendly family business proving top quality products and outstanding customer service.

S&S Northern is a friendly family business proving top quality products and outstanding customer service. S&S Northern has built a reputation in the UK that is second to none. Established in 1995, S&S Northern has become synonymous with designing and manufacturing gas pressure proving and gas detection equipment.

S&S Northern has achieved its position as the market leader as a result of its staff's dedication to supply top quality products that are safe, reliable and meet every client's individual requirements. Its aim is to always provide total satisfaction to those who specify, purchase and install S&S Northern products.

S&S Northern continually invests in training for every member of staff to ensure the customer receives the right product to meet their requirements at the right price and delivered on time. S&S Northern is committed to investing in research to improve its efficiency and the quality of its gas interlocking, gas ventilation and gas shut off systems and products. With bases in the North and South of the UK, S&S Northern is perfectly placed to respond to customer demand in any area and to respond immediately to requests for site visits or general enquiries.

Keep up to date with S&S Northern and industry news at [snsnorthern.com/blog](https://www.snsnorthern.com/blog) or follow us on social   [@snsnorthern](https://www.linkedin.com/company/snsnorthern)

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