









Gas Safety Controls **Product Catalogue**

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 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



k Up Fully Trained Sales Engineers



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.





















































Merlin **GDPX+**







alarm bypass





GAS PROVING & DETECTION WITH REMOTE MONITORING

(16 ZONE)



MERLIN DISABLED Man 27 22 23 24 0 585 S&S (€ 3

The Merlin GDPX+ is a multizone gas detection panel which can be used in many applications such as boiler house/ Plant rooms, factories, car parks and high rise. It can be used with up to 16 Merlin

The GDPX+ can be remotely monitored from www. snsnorthern.com so you can monitor the status of your sites from your computer or smartphone.

gas detectors for monitoring

and detecting gas, including

carbon monoxide, LPG,

Hydrogen.

Natural Gas, Oxygen and

Additional features

- Internet enabled (LAN)
- Remote monitoring LAN connection using snsnorthern.com portal
- Can be used with up to 16 gas detectors
- Connections for heat detectors/thermal links
- Two spare Input Connections (for additional detectors, fans, equipment)
- Connection for sounder/strobe

*Gas pressure transmitter included



Gas Solenoid valve Page 50

Natural Gas - X Detector Page 42-43

Carbon Monoxide - X Detector Page 42-43

LPG - X Detector Page 42-43

Fusible Link Page 49

Emergency Page 48





standards





Merlin GDP2X

OFTEN USED

Gas Solenoid valve Page 50

Natural Gas - X Detector Page 42-43

Carbon Monoxide - X Detector Page 42-43

LPG - X Detector Page 42-43

Fusible Link Page 49

Emergency Stop Page 48



The Merlin GDP2X is a 2 zone gas detection panel it can be used with up to 8 Merlin gas detectors (model X) for monitoring and detecting gas including carbon monoxide, LPG, Natural Gas, Oxygen and Hydrogen.

Additional features

- Gas valve output
- Can be used with up to 8 gas detectors
- Connection for sounder/strobe

GAS **DETECTION** (2 ZONE)

33

Merlin 1000BH









heat detectors/ thermal links

GAS PROVING & DETECTION (2 ZONE)



The Merlin 1000BH is a gas pressure proving and gas detection panel for use in plant rooms and boiler houses. This panel is to be used to carry out a gas proving test on the pipe work in order to highlight if there is a gas appliance open or a gas leak. The Merlin 1000BH is designed to give the user full control over the incoming gas supply with the lockable keyswitch operation.

Additional features

- Gas valve output
- Can be used with two gas detectors
- Connections for BMS

*Gas pressure transmitter included



Gas Solenoid valve Page 50

Natural Gas - X Detector Page 42-43

Carbon Monoxide - X Detector Page 42-43

LPG - X Detector Page 42-43

Fusible Link Page 49

Emergency Stop Page 48







Emergency Stop

heat detectors/ standards

Merlin GDP2



Gas Solenoid valve Page 50

Natural Gas - X Detector Page 42-43

Carbon Monoxide - X Detector Page 42-43

LPG - X Detector Page 42-43

Fusible Link Page 49

Emergency Stop Page 48



The Merlin GDP2 is a two zone gas detection panel which can be used in many applications such as factories, car parks, shopping centres and most commonly - boiler houses.

Additional features

- Gas valve output
- Can be used with up to 2 gas detectors
- Connections for BMS
- Connection for sounder/strobe



Merlin **500S**







Clear digital display for system indications

Connections for heat detectors/ thermal links

UTILITY **ISOLATION** PANEL



The Merlin panel is designed to provide the user with an effective means of isolating the utility, via a key switch or in the event of an emergency, by operation of the emergency shut off button. The 500S has a fascia mounted emergency shut off button fitted as standard and the fascia mounted LEDs give simple and concise information to the operator. The panel is fully compatible with S&S Northern remote emergency stop terminals allowing a large number of emergency terminals to be connected in series and wired back to the panel.

Additional features

- Easy installation
- Covered by S&S Northern ltd 3 year warranty









PAGES 36-45

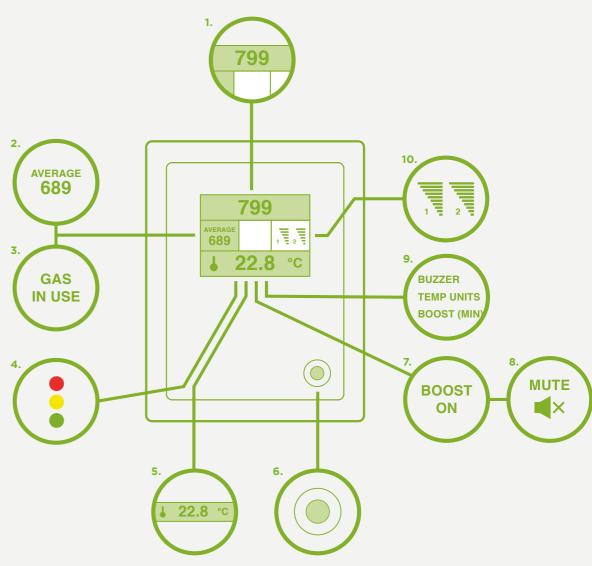


SIMPLE,

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 6. Touch button Display changes colour Used to activate 'Boost'

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

5. Temperature reading Displays temperature levels over 30 minute periods.

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**









12V DC, 24VDC Fan controller or 230V AC enabled relay powered. output

CARBON DIOXIDE **MONITOR**



The CO2-X is a dual

average readings over

Additional features

valve activation

clearly.

an 8 hour period.

which has the ability to show

• Can automatically change

alarm settings based on gas

• CO2 and temperature levels

measured and displayed

• 2 x 0-10V Signal output. powered carbon dioxide • Displays average readings of and temperature monitor, CO2 concentration over an 8

• End of life and fault notifications.

hour period.

- Pre alarm and alarm output.
- Variable CO2 and temperature output

OFTEN USED WITH

Merlin 2000S

Merlin 1000VW+

Merlin 1000S











Merlin CO2-C1



display with traffic light feature



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)



PRE-**CALIBRATED** AND COMPACT

LPG: Semi-conductor

PRE-ALARM

LPG: 8% LEL

LIFE

EXPECTED NG: 10 Years

RANGE

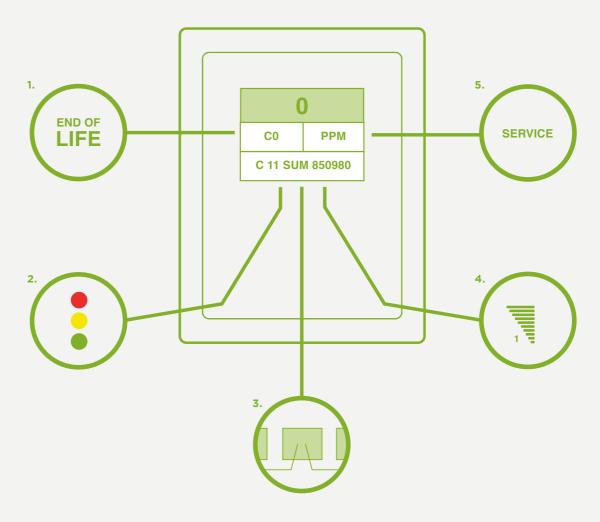
MEASURING NG:300-10,000 PPM LPG:300-10,000 PPM

LPG: 10% LEL

100 PPM @ 10 MINS 300 PPM @ 1 MINS

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

Mini Merlin CH4CO TFT







Clear digit display

Gas Level Lov dicator for oth NG and

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
- Can be used to shut off boilers via appliance limit circuits
- Low voltage inputs for remote emergency stops and fire alarms
- BMS system integration
- LPG & CO detector available



Gas Solenoid Valve Page 50

Emergency Stop Page 48

Fusible Link

Bump Kits

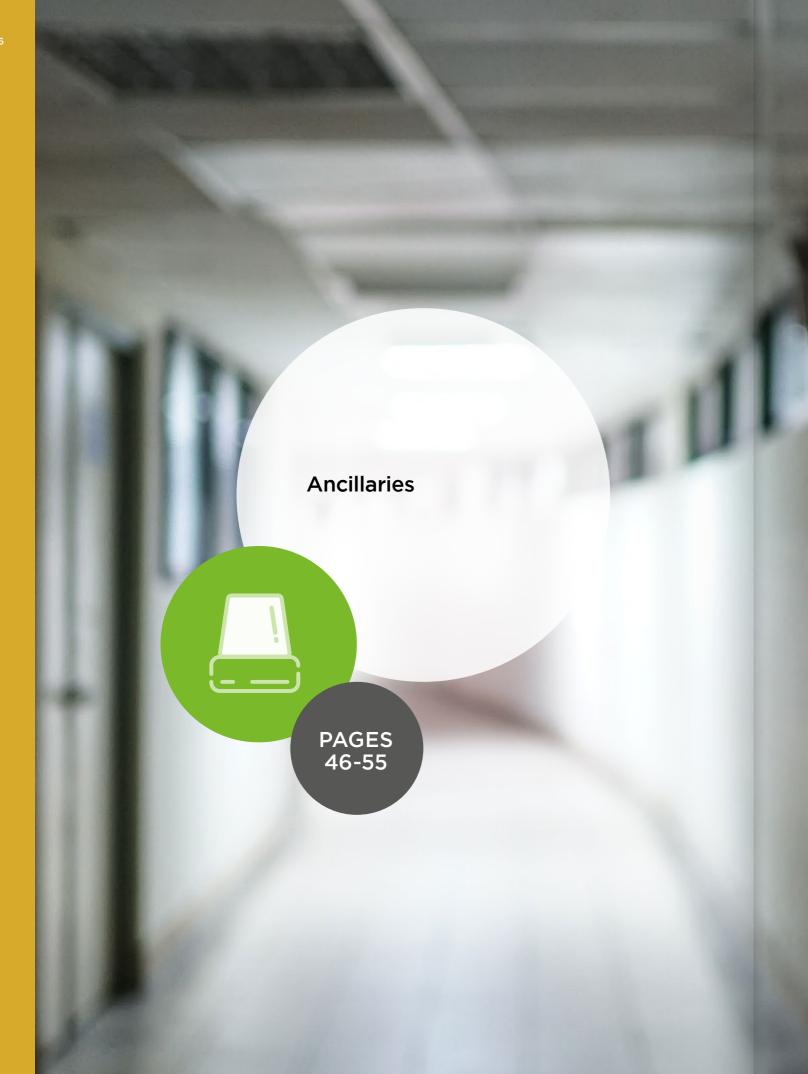


We offer a full range of bottled test gases and testing equipment. The Bump kits are is used to check and maintain gas detectors.

- Carbon Monoxide
- Methane
- LPG
- Nitrogen

Others available on request.

GAS DETECTOR TESTING / CALIBRATION



FAB-1 Fire Alarm bypass

Merlin 1000BH





The Merlin FAB1 can be integrated with any of the Merlin products to give the operator the ability to temporarily bypass the S&S controller. With prior notice to a fire alarm test, the operator can turn the key to the on position giving an un-interrupted gas supply for between 10 and 45

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 by pressing the emergency gas shut off button on the fascia.

Emergency



Stop



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

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.



Merlin GDP2X

Merlin GDP2 Page 33

Merlin 1000BH

Fusible Link

The fusible link is most commonly used in a boiler room application. These are fitted as a mean 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.





GDP2X

The Sounder Alarm Beacon is a remote alarm

event of an emergency. Various colours are

beacon most commonly used outside a boiler room. This sounder alarm beacon can give both an audible and visual alarm in the

available to suit the application.

GDPX+ Page 30

Merlin GDP2 Page 33

Sounder **Alarm Beacon**



Air Pressure Differential Switch

Merlin 1000V+



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 to detect the airflow.

Gas Solenoid Valve



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

Merlin 2000S Page 15

Merlin 1000S

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



Merlin 1000VW+

Merlin 1000SW+

Water Solenoid Valve

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, autoreset 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.



OFTEN USED WITH

Merlin 1000S

20005

Pressure **Transducer**



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



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 & IGEM 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

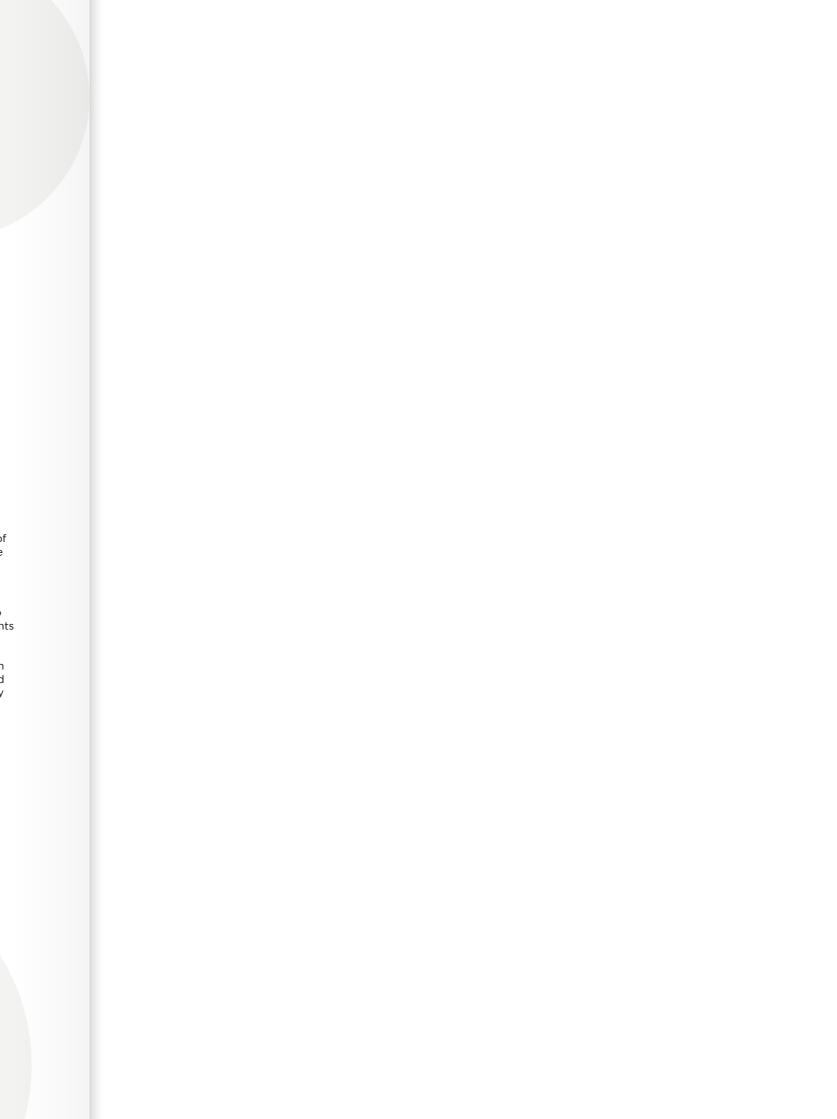
S&S Northern is a friendly family business proving top quality products and outstanding customer service.

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 or follow us on social ♥ ■@snsnorthern



Head Office

S&S Northern Ltd Wallace Francis House Barnes Wallis Way Buckshaw Village Chorley Lancashire PR7 7JN

T +44 (0) 1257 470 983 E info@snsnorthern.com

South East

42 Towerfield Road Shoeburyness Essex SS3 9QT

T +44 (0) 1702 291 725 F +44 (0) 1702 299 148 E south@snsnorthern.com

