Gas Safety Controls

ALL CONTROLS

OGS
OCEANIA GAS SAFETY

GAS SAFETY IN EVERY ENVIRONMENT.

The 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

Contents

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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@oceaniagassafety.com.
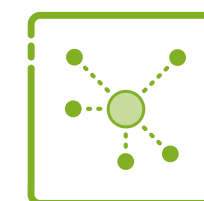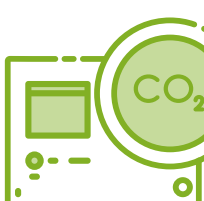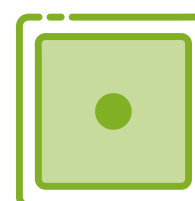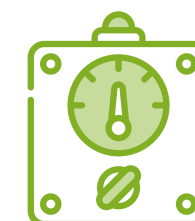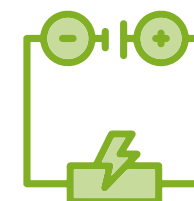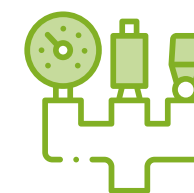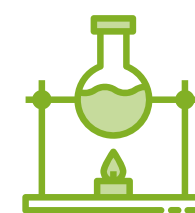
Kitchens

OGS 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 Latest standards

Extraction system that minimises heat loss

ENERGY SAVING DEMAND CONTROLLED VENTILATION SYSTEM

OFTEN USED WITH

Gas Solenoid valve
Page 50

PM2+ Current Monitor
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CO2-X
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Carbon Monoxide detectors
Page 42-43

Optical Sensor
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Duct Thermostat
Page 54

TBX Gas Meter
Page 54

Inverter
Page 55

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.

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

Merlin CT1750 System
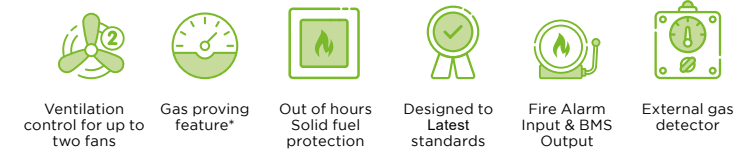
Ventilation control for up to two fans

Gas proving feature*

Out of hours Solid fuel protection

Designed to Latest standards

Fire Alarm Input & BMS Output

External gas detector

OFTEN USED WITH

Gas Solenoid valve
Page 50

PM2+ Current Monitor
Page 52

CO2-X
Page 40

Carbon Monoxide detectors
Page 42-43

Inverter
Page 55

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.

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

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

Merlin CT1650+ System

Monitor up to four fans

Built in LCD current monitors

Suitable with both single phase and three phase fans

Designed to Latest 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
Page 50

CO2-X
Page 40

Emergency Stop
Page 48

Speed Controller
Page 55

Merlin CT1250X System

Monitor up to two fans

Built in current monitors

Suitable with both single phase and three phase fans.

Designed to Latest standards

Fire Alarm Input & BMS Output

OFTEN USED WITH

Gas Solenoid valve
Page 50

Emergency Stop
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Speed Controller
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The Merlin CT1250X System is a current monitoring interlock system for commercial kitchens. This comes with two built in intelligent current monitors.

The Merlin CT1250X has the facility to interlock with two additional fans via remote current monitors (CS1-2) or air pressure differential switches.

Additional features
• Intelligent Current Monitors to set "high" and "low" parameters.

• Current Monitors parameters 0.2amp to 18amp.

• Adjustable sensitivity threshold to reduce nuisance drop outs.

CURRENT MONITORING INTERLOCK SYSTEM

Merlin CT1200X System

Monitor up to two fans

Integral Emergency Stop

Designed to **Latest** standards

Fire Alarm Input & BMS output

GAS INTERLOCK SYSTEM (2 FAN INPUTS)

Gas Safety System
Model: CT1200S

Power
Gas On
EM Stop

Supply Fan
Extract Fan
Fan Fault
Service

EMERGENCY SHUT OFF

OFF   Mute

ON

S&S NORTHERN

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 2000X System

Monitor up to four fans

Gas proving feature*

Designed to **Latest** 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

GAS SAFETY SYSTEM
MERLIN

Gas On
Testing
Test Fail
Pressure Low

Supply Fans
Extract Fans
Fan Fault

EM Stop
Gas Detected
CO High

EMERGENCY SHUT OFF

OFF

ON

S&S NORTHERN

The Merlin 2000X is a ventilation interlock and gas proving system for commercial kitchens and includes two built in intelligent current monitors.

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

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).

• 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 2000X+ System

Monitor up to four fans

Gas proving feature*

Designed to Latest standards

Fire Alarm Input & BMS Output

External gas detector

GAS PROVING SYSTEM (4 FAN INPUTS)

The Merlin 2000X+ is a ventilation interlock and gas proving system with electrical isolation, designed for commercial kitchens and includes two built in intelligent current monitors.

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

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).

• Facility to interlock using external current switches or air pressure differential switches (4 fans)

• Works with gas detectors and Carbon monoxide monitors
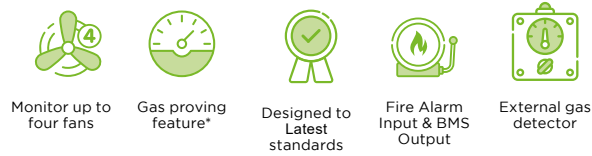
• Electrical Isolation

*Transmitter included

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

Merlin 2000XW+ System

Monitor up to four fans

Gas proving feature*

Designed to Latest 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 2000XW+ is a ventilation interlock and gas proving system with electrical & water isolation. This controller is designed for commercial kitchens and includes two built in intelligent current monitors.

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

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).

• Facility to interlock using external current switches or air pressure differential switches (4 fans)

• Works with gas detectors and Carbon monoxide monitors

• Electrical & Water Isolation

*Transmitter included

GAS PROVING SYSTEM (4 FAN INPUTS)

Merlin 1500S System

Integral Emergency Stop

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 valve
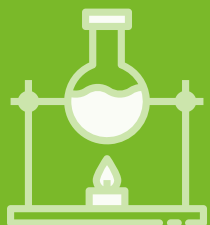**Page 50**

Merlin CO2-X
Page 40

PM2+ Current Monitor
Page 52

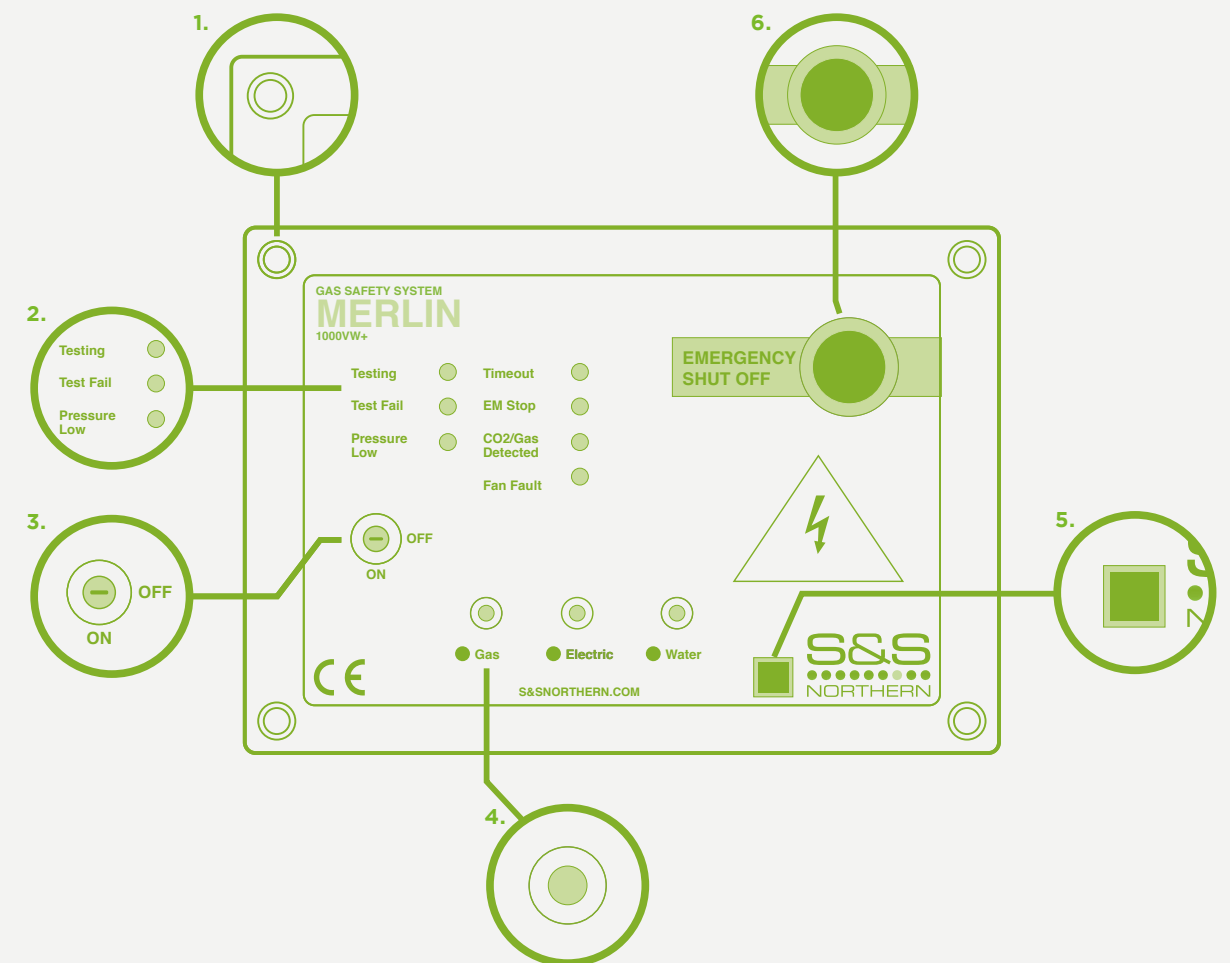Air Pressure Differential Switch
Page 50

Science Lab

OGS 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 specialist or high pressure gases.

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Gas pressure proving systems

GAS SAFETY SYSTEM
MERLIN
1000VW+

Testing	Timeout
Test Fail	EM Stop
Pressure Low	CO2/Gas Detected
	Fan Fault

EMERGENCY SHUT OFF

OFF
ON

OFF
ON

● Gas   ● Electric   ● Water

S&SNORTHERN.COM

S&S NORTHERN

Testing
Test Fail
Pressure Low

CE

✔ Incredibly easy to use and install
✔ Adjustable time out facility
✔ Industrial grade polycarbonate material to withstand daily use

COMPACT, ROBUST & RELIABLE

1. Modern design
Slim compact enclosure

2. Clear status indication
For each utility

3. Quick operation
Keyed authority ON/OFF Alarm reset

4. Robust control
Touch sensitive buttons

5. Ease of access
Power indication and QR code for easy access to manuals

6. Emergency stop button
Recessed panic button eliminates accidental shut down

Merlin 1000VW+

Ventilation interlock | **Integral Emergency Stop** | **Isolates gas, water and electric (via contactor)** | **Designed to Latest standards** | **Fire Alarm Input & BMS Output** | **Gas proving feature***

GAS PROVING, ELECTRIC & WATER ISOLATION, FAN INTERLOCK

The Merlin 1000VW+ gas pressure proving, electric and water isolation system is designed specifically for use in educational buildings and Laboratories. The 1000VW+ can also interlock any mechanical ventilation.

Additional features

• Facility to interlock with the ventilation units.

• Gas valve output

• Low Pressure Monitoring for incoming gas supply

• Works with Carbon Dioxide Monitor

*Gas pressure transmitter included

OFTEN USED WITH

Gas Solenoid valve
Page 50

Water Solenoid Valve
Page 51

Merlin CO2-X
Page 40

Air Pressure Differential Switch
Page 50

Merlin 1000V+

Ventilation interlock | **Integral Emergency Stop** | **Isolates gas and electric (via contactor)** | **Designed to Latest standards** | **Fire Alarm Input & BMS Output** | **Gas proving feature***

OFTEN USED WITH

Gas Solenoid valve
Page 50

Merlin CO2-X
Page 40

Air Pressure Differential Switch
Page 50

Emergency Stop
Page 48

The Merlin 1000V+ gas pressure proving and electric isolation system is designed specifically for use in educational buildings and Laboratories with ventilation interlocking between the ventilation system and the gas solenoid valve. The system is compatible with external current monitors or air pressure differential switches in order to interlock with the ventilation units.

Additional features

• Facility to interlock with ventilation units.

• Gas valve output

• Low Pressure Monitoring for incoming gas supply

• Works with Carbon Dioxide Monitor

GAS PROVING, ELECTRIC ISOLATION, FAN INTERLOCK

Merlin 1000V

Ventilation interlock

Integral Emergency Stop

Designed to **Latest** standards

Fire Alarm Input & BMS Output

Gas proving feature*

GAS PROVING, FAN INTERLOCK

The Merlin 1000V+ gas pressure proving system is designed specifically for use in educational buildings and Laboratories with ventilation interlocking between the ventilation system and the gas solenoid valve. The system is compatible with external current monitors or air pressure differential switches in order to interlock with the ventilation units.

Additional features
- Facility to interlock using current switches or air pressure differential switches (4 fans)

- Gas valve output

- Low Pressure Monitoring for incoming gas supply

- Works with Carbon Dioxide Monitor

*Gas pressure transmitter included

OFTEN USED WITH

Boiler Room

OGS 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.
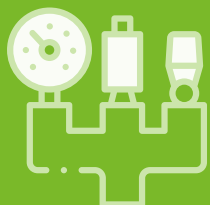
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Merlin GDPX+

Remote monitoring LAN connection

Integral Emergency Stop

Meets all latest standards

In built fire alarm bypass mode

Gas proving feature*

Connections for BMS and Modbus outputs

GAS PROVING & DETECTION WITH REMOTE MONITORING (16 ZONE)

The Merlin GDPX+ is a multi-zone 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 gas detectors for monitoring and detecting gas including carbon monoxide, LPG, Natural Gas, Oxygen and Hydrogen.

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

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)

*Gas pressure transmitter included

OFTEN USED WITH

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

Merlin GDP2X

Integral Emergency Stop

Meets all latest standards

Fire alarm input

Connections for heat detectors/ thermal links

OFTEN USED WITH

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
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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)

Merlin 1000BH

Integral Emergency Stop

Meets all latest standards

Gas proving feature*

Connections for 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

OFTEN USED WITH

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
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Merlin GDP2

Integral Emergency Stop

Meets all latest standards

Connections for heat detectors/ thermal links

OFTEN USED WITH

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
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Emergency Stop
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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

GAS DETECTION (2 ZONE)

Merlin 500S

Clear digital display for system indications

Meets all latest standards

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 **OGS** 3 year warranty

OFTEN USED WITH

Gas Solenoid valve
Page 50

Fusible Link
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Emergency Stop
Page 48

Detectors

OGS 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.
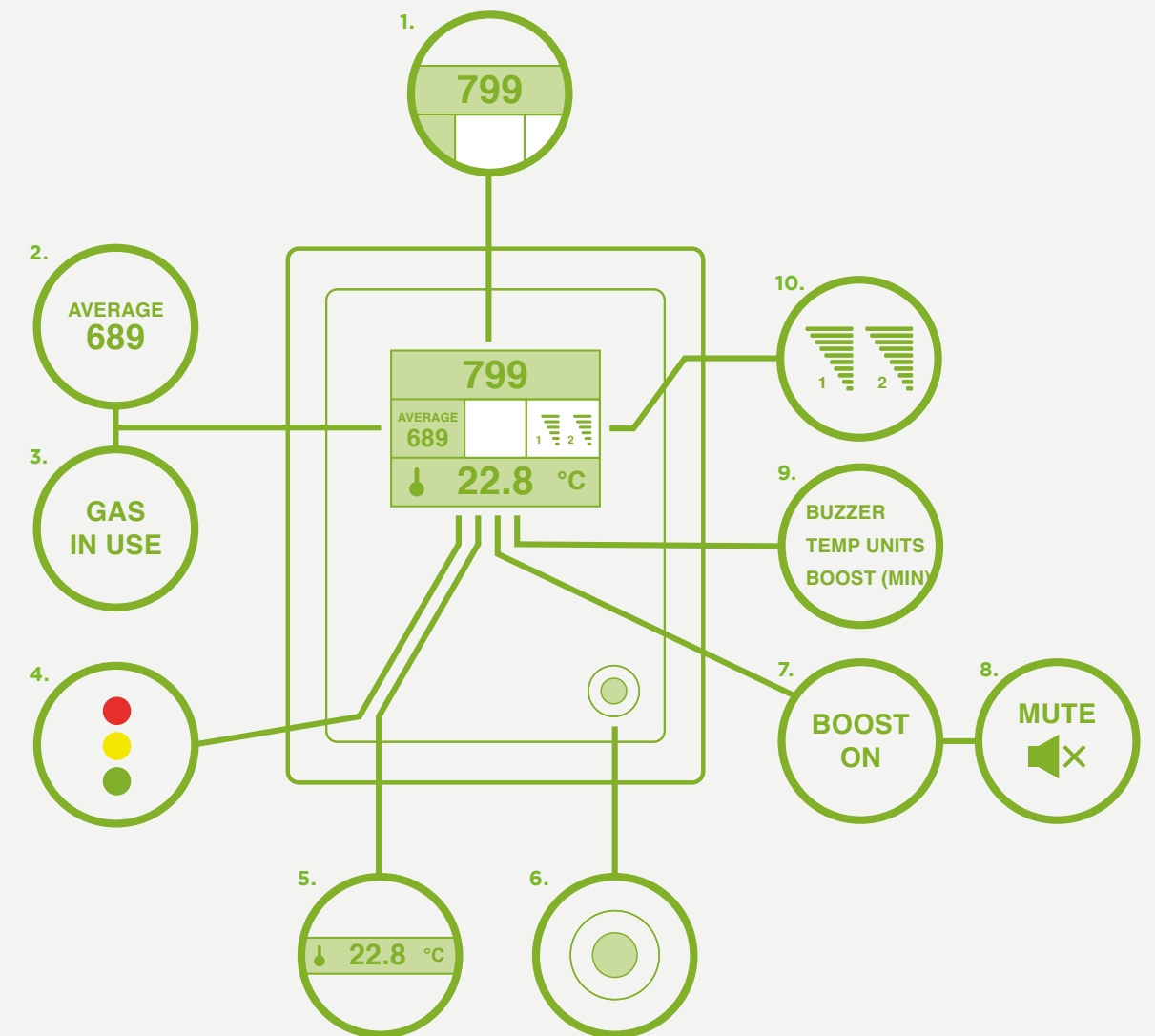
PAGES
36-45

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
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

Merlin CO2-C1

Clear digital display with traffic light feature

Designed to IGEM/UP11 standards

Mains powered

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)

Merlin GDPX+
Page 18

Merlin GDP2X
Page 20

Merlin 1000BH
Page 21

PRE-CALIBRATED AND COMPACT

GAS SENSOR TYPE	NG: Semi-conductor
	LPG: Semi-conductor
	H: Semi-conductor
	CO: Electro-chemical
	O2: Electro-chemical

GAS LEVEL PRE-ALARM	NG: 8% LEL
	LPG: 8% LEL
	H: 8% LEL
	CO: 20 PPM
	O2: 18.5-19.5%

| EXPECTED SENSOR LIFE	NG: 10 Years
	LPG: 10 Years
	H: 10 Years
	CO: 5 Years
	O2: 3 Years

MEASURING RANGE	NG:300-10,000 PPM
	LPG:300-10,000 PPM
	H: 100-10,000 PPM
	CO: 10-10,000 PPM
	O2: 0-30%

GAS LEVEL ALARM	NG: 10% LEL
	LPG: 10% LEL
	H: 10% LEL
	CO: 30 PPM @ 2 HOURS 50 PPM @ 1 HOUR 100 PPM @ 10 MINS 300 PPM @ 1 MINS
	O2: <18.5% / >23%

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.

1.
END OF **LIFE**

5.
SERVICE

2.

4.
1

3.

0

C0	PPM

C 11 SUM 850980
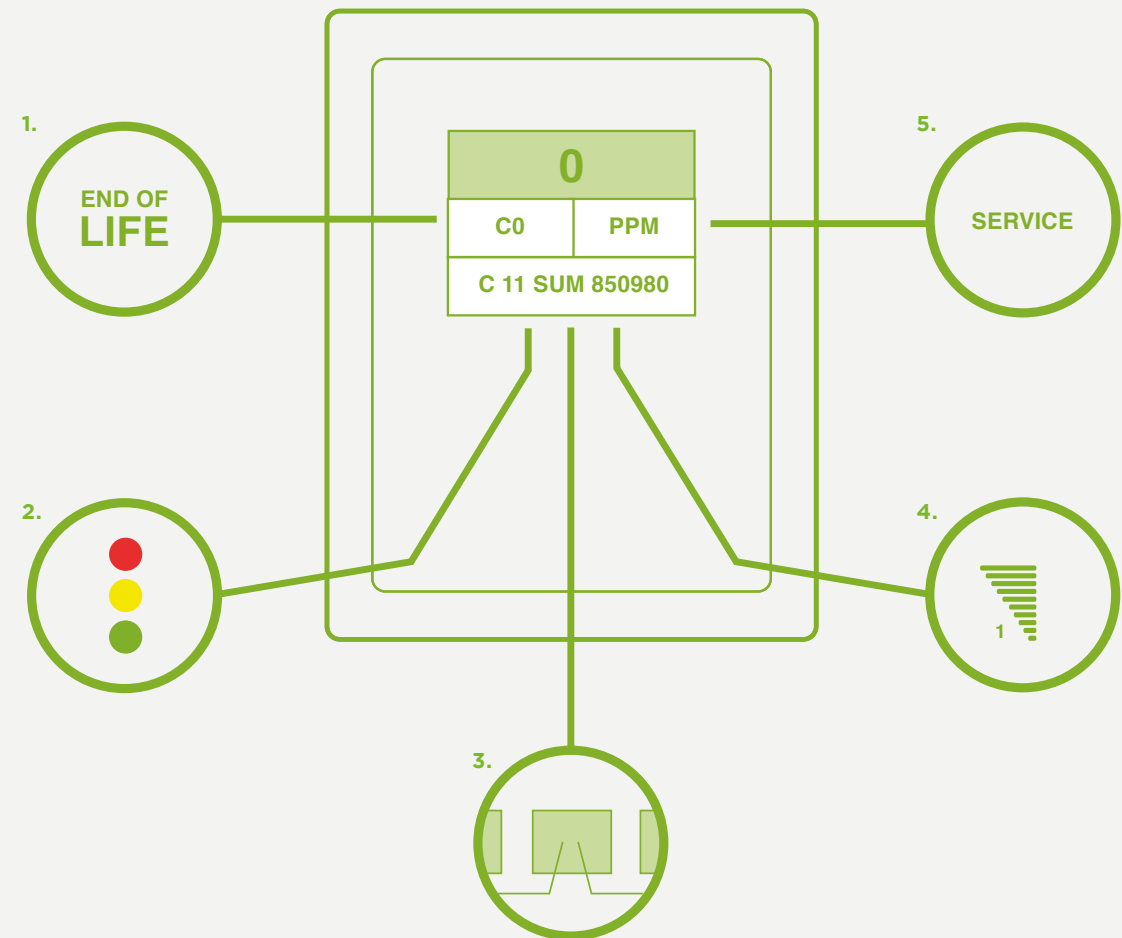
✔ Modern design with a slim and compact enclosure
✔ No calibration required - pre-calibrated in the factory
✔ Power supply 12-24V AC/DC
✔ Various outputs to work with control panels
✔ Connections available for Modbus outputs

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
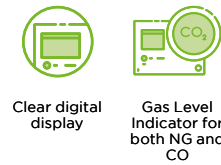
Clear digital display

Gas Level Indicator for both NG and CO

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.

OFTEN USED WITH

Gas Solenoid Valve
Page 50

Emergency Stop
Page 48

Fusible Link
Page 49

Mini Merlin
LPG-CO TFT

Clear digital display

Gas Level Indicator for both **LPG** and CO

COMBINED LPG & CARBON MONOXIDE DETECTOR

The Mini Merlin **LPG**CO TFT for domestic applications.

The Mini Merlin LPGCO TFT is a dual gas sensor carefully designed and tested to monitor levels of LPG 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

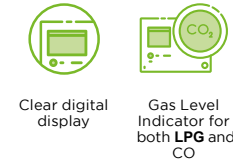• Low voltage input to connect with emergency stops and fire alarms.

OFTEN USED WITH

Gas Solenoid Valve
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Emergency Stop
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Fusible Link
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Ancillaries

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46-55

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 un-interrupted 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.

Fusible Link

OFTEN USED WITH	Merlin GDP2X Page 31	Merlin 1000BH Page 32	Merlin GDP2 Page 33	Merlin GDPX+ Page 30

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.

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.

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.

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.

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.

Certified to AS/NZS 4629-2005

Pressure Transducer

OFTEN USED WITH	Merlin GDPX+ Page 30	Merlin 1000S Page 27	Merlin 2000S Page 15

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

Certified to AS/NZS 4628 2005

DPM2

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.

CS1/CS2

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.

PM2+

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.

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.
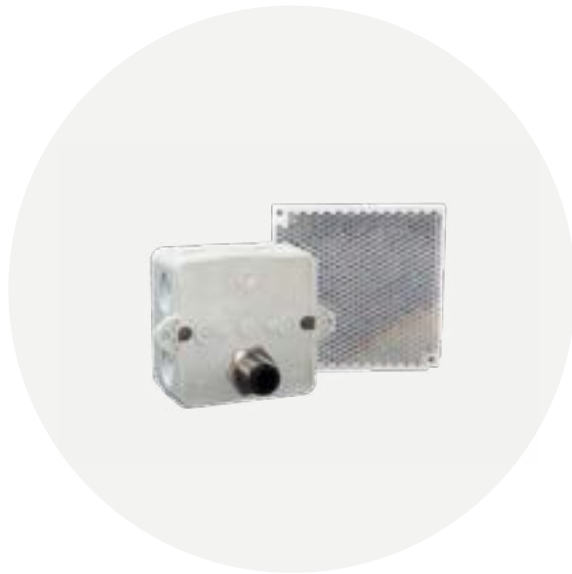
Duct Thermostat

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.

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.

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.

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.

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