OGS
OCEANIA GAS SAFETY

OCEANIAGASSAFETY.COM

Gas Safety Controls
Product Catalogue

GAS SAFETY IN EVERY ENVIRONMENT.

The 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

24/7 Tech Back Up

Fully Trained Sales Engineers

Express Delivery Available

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
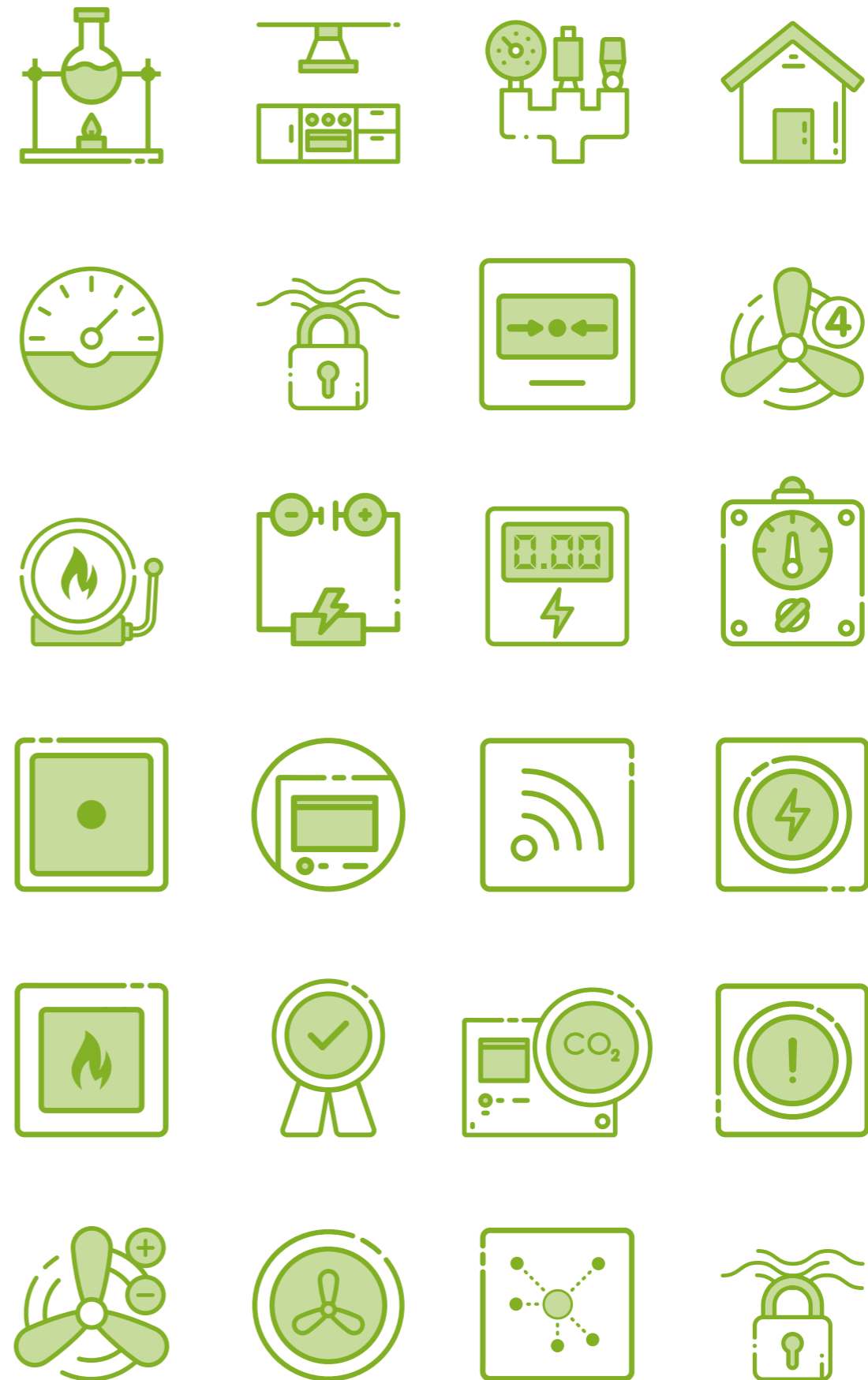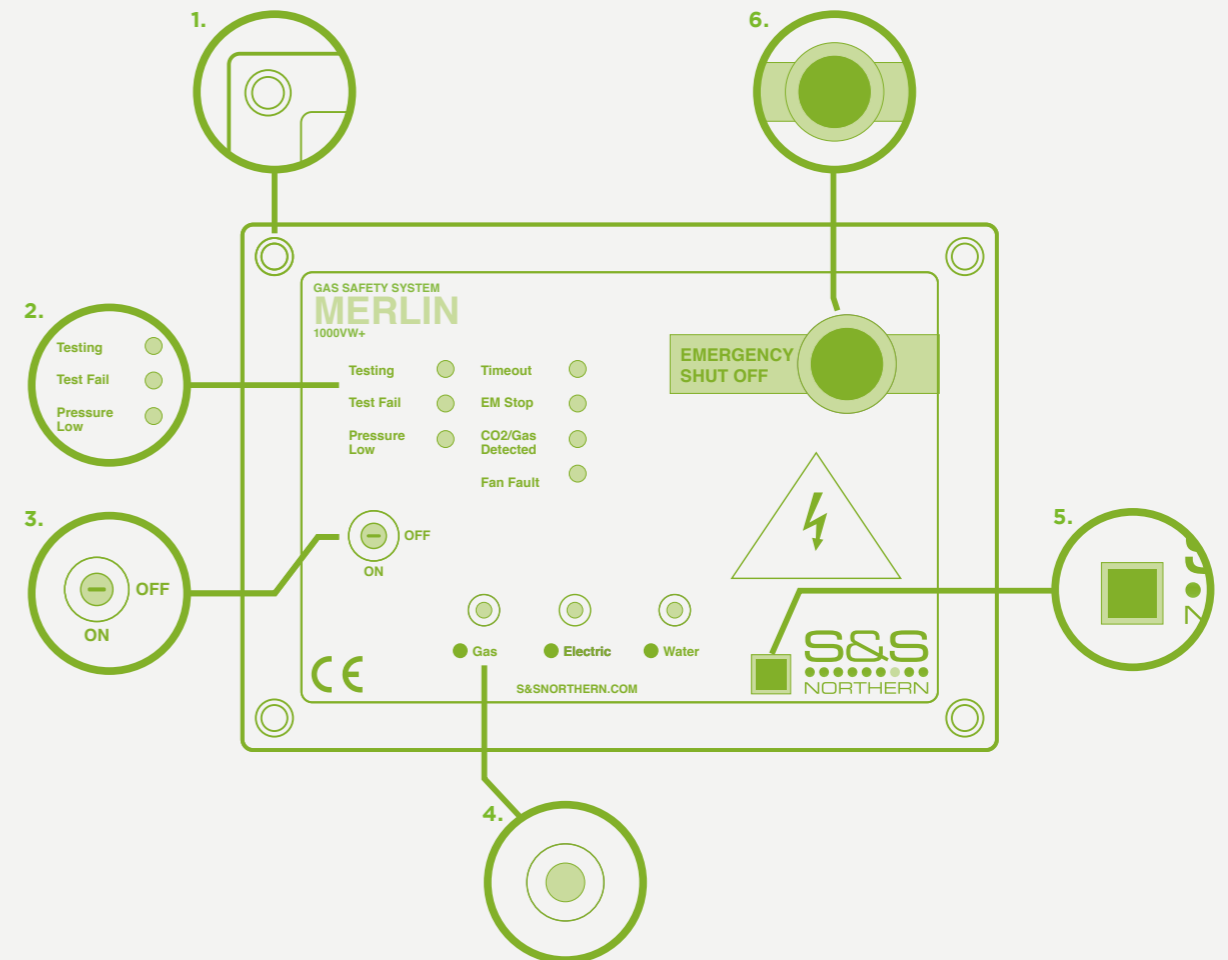
Science Lab

Oceania Gas Safety 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 specialty or high pressure gases.

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Gas pressure proving systems

GAS SAFETY SYSTEM
MERLIN
1000VW+

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

EMERGENCY SHUT OFF

OFF
ON

OFF
ON

Testing
Test Fail
Pressure Low

● Gas   ● Electric   ● Water

S&SNORTHERN.COM

CE

S&S NORTHERN

✔ Incredibly easy to use and install
✔ Adjustable time out facility
✔ Industrial grade polycarbonate material to withstand daily use
✔ Meets IGEM/UP11

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

COMPACT, ROBUST & RELIABLE

Merlin 1000 VW+

Ventilation interlock

Integral Emergency Stop

Isolates gas, water and electric (via contactor)

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)

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

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

Detectors

Oceania Gas Safety 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.
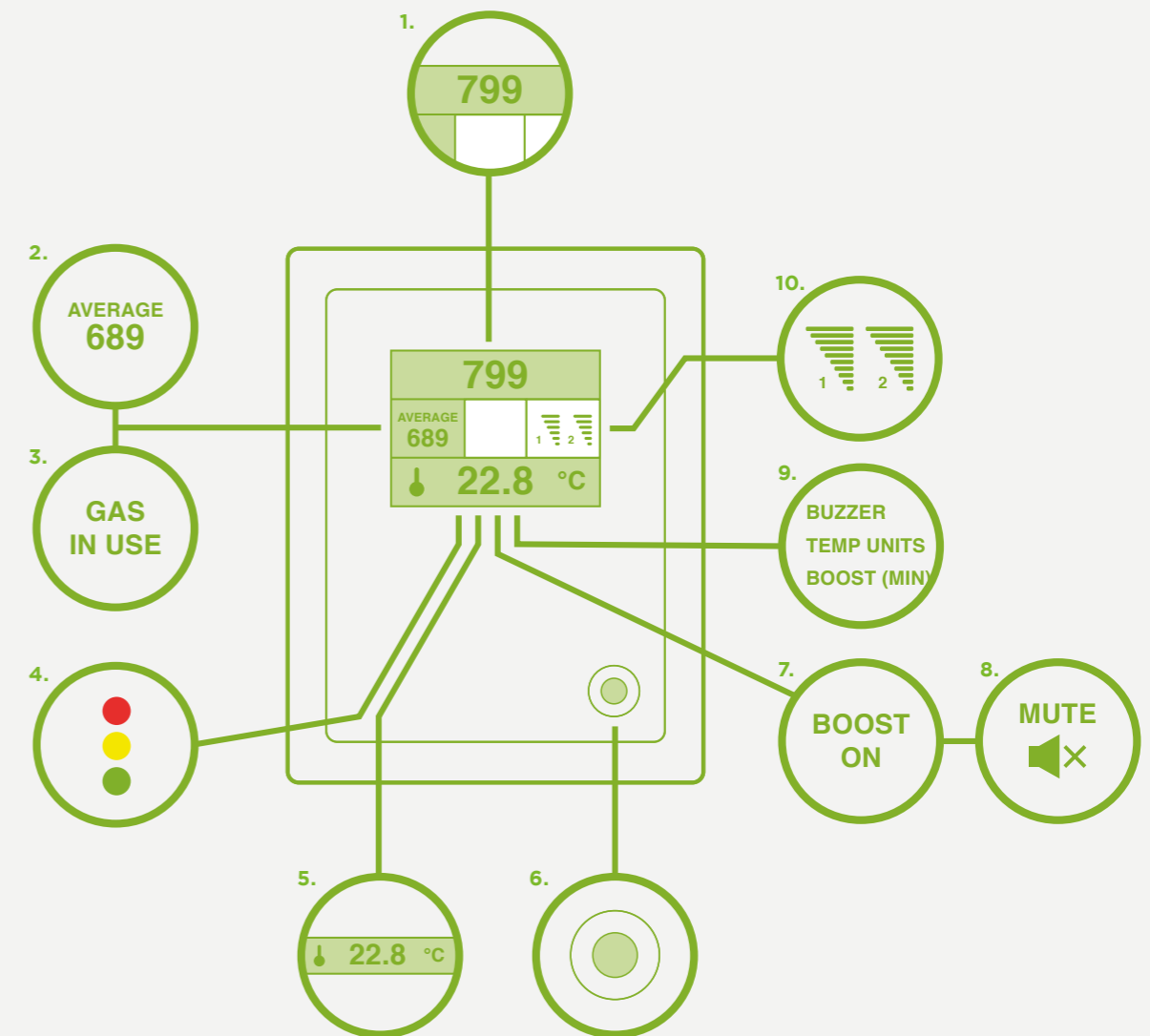
PAGES
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Carbon Dioxide and temperature monitor

1. 799

2. AVERAGE 689

3. GAS IN USE

4.

5. 22.8 °C

6.

7. BOOST ON

8. MUTE

9. BUZZER TEMP UNITS BOOST (MIN)

10.

799
AVERAGE 689
22.8 °C

✔ 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 minute 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

SIMPLE, EFFICIENT & RELIABLE

CO2-X Monitor

Clear digital display

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 CO2-C1

Clear digital display with traffic light feature

Mains powered

OFTEN USED WITH

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 WITH

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 OGS 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

0

C0   PPM

C 11 SUM 850980

2.

4.

3.
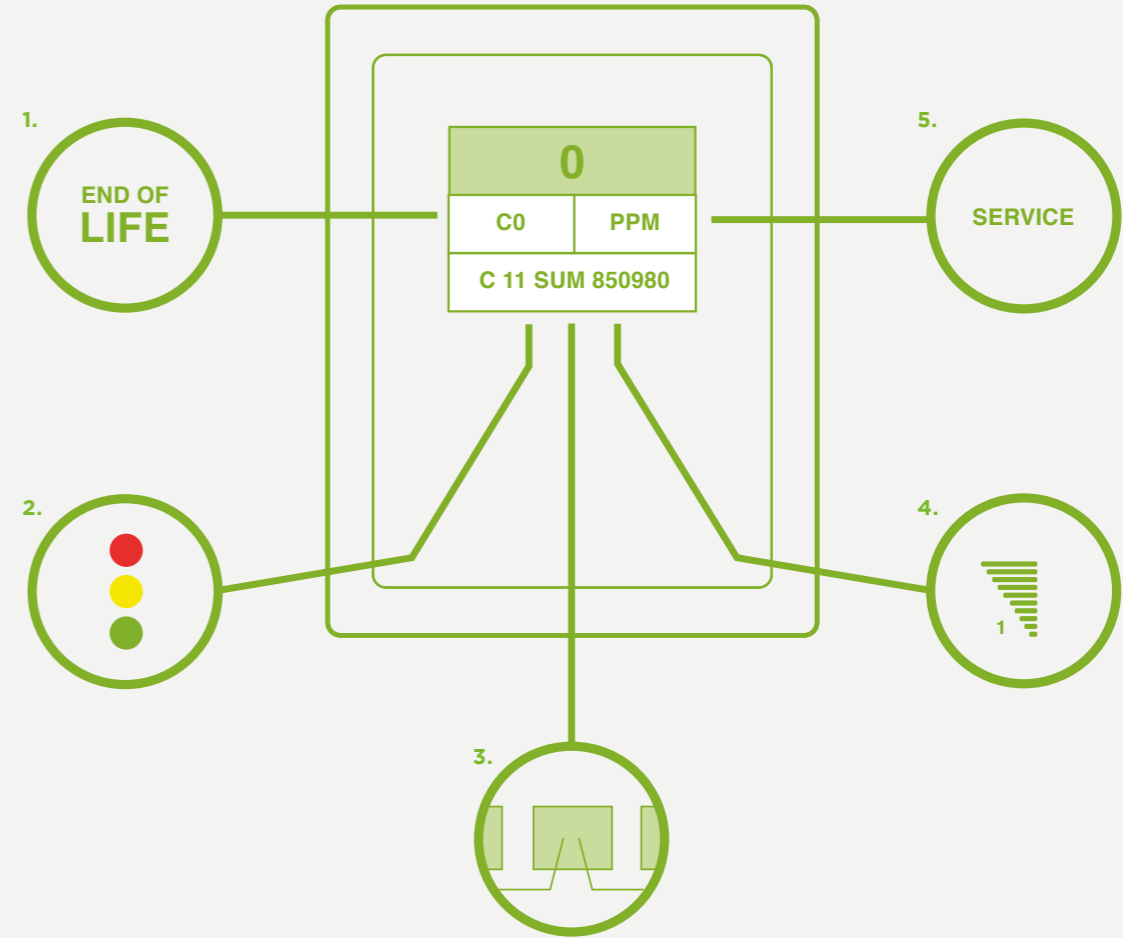
✔ Modern design with a slim and compact enclosure
✔ No calibration required - pre-calibrated in the factory
✔ Power supply 12-24V AC/DC
✔ Various outputs to work with control panels
✔ Connections available for Modbus outputs

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.

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 products to give the operator the ability to temporarily bypass the OGS 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 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 by pressing the emergency gas shut off button on the fascia.

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.

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 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.

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 to 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 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.

DPM2

Merlin 2000S **Page 15**	Merlin 1000S **Page 27**	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.

CS1/CS2

OFTEN USED WITH	Merlin CT1200S **Page 14**	Merlin 1000V **Page 24**	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.

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