

# THE MERLIN RANGE

## 1000BH SYSTEM

*The Merlin 1000BH has been designed specifically for use in boiler house applications. It is a gas pressure proving panel that has the ability to carry out an auto restart after a power failure, as required by technical bulletin BB100.*

*After a genuine alarm, such as gas detected or emergency shut-off, the panel will need to be manually reset in order for the alarm condition to be assessed before gas is re-introduced.*

*The Merlin 1000BH can work in conjunction with up to two gas detectors, the more commonly used being Natural gas (Methane) carbon monoxide & LPG. Remote emergency shut-off buttons and thermal links can also be connected to the Merlin 1000BH panel.*



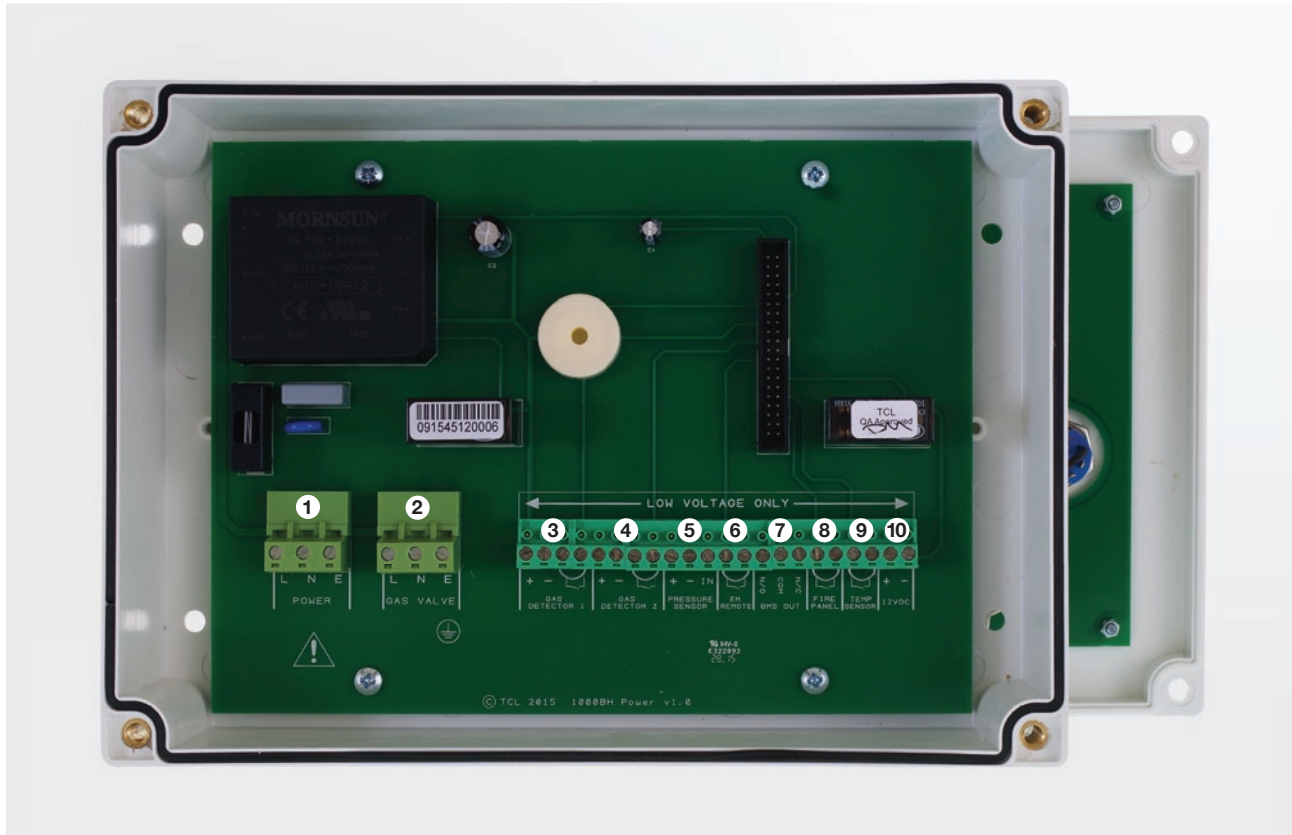
### Advantages of the Merlin 1000BH System

- Easy to install – The use of clearly marked PCB connections, low voltage wiring and push-fit wiring connections makes the 1000BH very simple to install.
- Multi zone system - Can be used with up to two Merlin gas detectors.
- Comes complete with gas pressure transducer as standard.
- Checks for gas leaks - carries out a gas pressure test on the gas line at start-up.
- Continuous check on gas line – if the incoming pressure drops below 12 mbar for more than 10 seconds the panel will shut off the gas.
- Meets BB100 – can be used as an auto restart panel after power failure.
- User friendly – Digital LED design gives clear system indication at all times.
- Easily adaptive - Will work with building management systems & remote fire panels.
- Fitted with emergency stop as standard - capable of accepting any number of additional emergency shut off buttons.
- Covered by the S&S Northern 3 year warranty.



# WIRING DIAGRAMS AND ANCILLARY PRODUCTS

**Merlin 1000BH Box Dimensions: Height: 180mm x Length: 255mm x Depth: 62mm (Excluding EM Stop)**



## Merlin 1000BH System Wiring Diagram

1. Mains Input 230VAC.
2. Gas Solenoid Valve Power Output, 230VAC, Max 3A.
3. Remote Gas detector input, 12V power supply and volt free input.
4. Remote Gas detector input, 12V power supply and volt free input.
5. Gas pressure transducer, power supply & returned signal.
6. Remote EM Stop buttons and Fire Alarm input wired in series.  
VOLT FREE INPUT
7. BMS output contacts. Normally Closed, Common & Normally Open.  
Max. 1A @ 230VAC.
8. Fire panel. VOLT FREE INPUT
9. Fusible Links. VOLT FREE INPUT
10. Permanent 12VDC output when there is power at the panel.



## Gas Pressure Transducer Dimensions:

**L: 110mm (Incl. port connection) L: 100mm (Excl. port connection)  
W: 25mm Port connection 1/4" bsp thread**