

BoilerGuard Plant Room Safety System

| Overview |

The BoilerGuard system is designed to meet the requirements of IGEM/UP 2 Edition 3, IGEM/UP/11 Edition 2 and provides the complete safety solution for any plant/boiler room whether Gas or Fuel Oil is used. The BoilerGuard can work alongside a BMS or act as the main safety circuit.

This system can act as the central controller for the gas supply whilst monitoring ancillary devices such as gas sensors and thermal fuses. It can also be interfaced with a BMS and interlocked with the power supply to the plant to delay start up until the gas supply is live.

With a number of useful features including being able to automatically restore the gas supply after a power failure, the BoilerGuard provides complete peace of mind and simplifies a quite often complicated safety circuit.

| Key Features |

- No commissioning required
- Proving or Non-proving selectable
- 24VDC auxiliary power output
- Interfaces for Gas Sensors, CO Sensors (with dedicated alarm output), Thermal Fuses, Remote Emergency Stop Buttons and Fire Alarm Systems
- 230V rated BMS output capable of interlocking with plant
- UK MANUFACTURED



Installer Selectable Options

- Proving or Non-Proving
- Enable/Disable
 - o Sounder
 - o Auto-reset

Technical Specification

Power Supply	230VAC
Power Output	Gas Solenoid 230VAC Alarm Beacon 230VAC
IP Rating	IP65 (Providing rear entry sealed)
Approval	CE

External Device Interfaces

BMS	VFC (Valve Status Indication) – Rated 230V 5A Max
Pressure	Monitors Flamefast Proving Assembly
24V Out	Auxiliary Power Supply (350mA Max) (to be used for Gas Sensors, Transmitters etc.)
Gas Sensor	24V Signal to monitor external VFC
CO Sensor	24V Signal to monitor external VFC
Thermal Fuse	24V Signal to monitor external VFC
Remote Stop	24V Signal to monitor external VFC
Fire Alarm	24V Signal to monitor external VFC
Beacon	240V Output to power alarm beacon

Dimensions

Height	180 mm
Width	130 mm / 140 mm Including Hinge
Depth	77 mm / 102 mm Including Stop Button

Basic Operation

When switched on via the key switch the BoilerGuard will check all interfaces prior to energising the gas solenoid to ensure no gas is released into a potentially unsafe environment.

The Boiler/Plant can be easily interlocked using the 230V 5A rated contact. This will not close until the gas is live, stopping appliances starting up prior to the restoration of gas.

Part Numbers & Options/Accessories

Part No	Description
BG-PO	BoilerGuard Panel Only
BG-PR00	BoilerGuard c/w Proving Assembly
SVXX	Gas Solenoid Valve (See Datasheet for Part No.)