



**Diamond
Controls®**

Leak Detection & Trace Heating Systems

Datasheet



GAS LEAK DETECTION

Flamefast BoilerGuard

(BG) Plant Room Safety System

The New BoilerGuard system provides a complete and comprehensive gas safety system for boiler plant room applications, providing a central interface for all common safety interlocks, including Fire Alarm Systems, Thermal Fusible Links, and Gas Sensors.

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Overview

With numerous hardware and firmware upgrades, the BoilerGuard can now monitor up to 24 Flamefast Gas Sensors, with simple menus to navigate through and view the sensor information, and the upgraded power supply can power between 10 and 24 sensors (depending on sensor type).

The BoilerGuard's unrivalled flexibility makes it one of the most versatile, yet cost-effective safety systems available, with the relay outputs and optional BACnet/Modbus interface module allowing simple integration into most third-party systems.

Key Features

- New Stylish Enclosure
- Proving or Non-proving selectable
- Auto-reset following Fire Alarm
- Auto-reset following Power Failure
- Optional BACnet/Modbus module
- 24VDC auxiliary power output
- Interfaces for:
 - Thermal Links
 - Ventilation Systems
 - Remote Emergency Stop Buttons
 - Fire Alarm Systems
- Remote reset interface
- Relays for Alarm 1, Alarm 2, and Fault
- UK Manufactured

Dimensions

Height	180mm
Width	180mm
Depth	65mm / 70mm including Stop Button

Technical Specification

Power Supply	85 ~ 300VAC 50/60Hz
Power Consumption	20W Max (Panel Only)
Outputs	Gas Solenoid Switched Mains (5A Fused) Alarm 1 SPDT - 5A @ 250V Max Alarm 2 SPDT - 5A @ 250V Max Fault SPST - 5A @ 250V Max BACnet MS/TP or Modbus RTU (with -COM)
Operating Conditions	Temp 0 ~ 50°C Humidity 0 ~ 95% (NC)
IP Rating	IP65
Housing Material	PC/ABS
Colour	Dark Grey
Approval	CE, UKCA

External Device Interfaces

Pressure Transmitter	PT00 Connection
24V Out	24V DC Power Out - 600mA (for TR, SS, FGS)
Gas Sensor	BACnet Interface for FGS Range
Ventilation	LV Signal to monitor external VFC
Thermal Link	LV Signal to monitor external VFC
Fire Alarm	LV Signal to monitor external VFC
Remote Stop	LV Signal to monitor external VFC
Remote Reset	LV Signal to monitor Momentary Switch

Installer Selectable Options

Gas Pressure Proving	ON / OFF
Gas Proving Fill / Test Time	5s Fill + 30s Test / 10s Fill + 60s Test
Fire Alarm Auto-reset	ON / OFF
Power Failure Auto-reset	ON / OFF

Common Accessories

FGS-NG	Flamefast Gas Detector – Natural Gas
FGS-LPG	Flamefast Gas Detector – Propane
FGD-CO	Flamefast Gas Detector – Carbon Monoxide
TFL	Thermal Fusible Link (70°C) – Auto-reset
RSTOP	Remote Emergency Stop – Twist Release
AVT24B	Traffic Light Alarm Indicator – Black
CABLE1	Belden 8723 Equivalent (100m)

Important: All information, including illustrations, is believed to be reliable. Users, however, should independently evaluate the suitability of each product for their application.