

**Specification Sheet**

Document Ref: C1515Bv.1

## FLAMMABLE / TOXIC / REFRIGERANT GAS ALARM

**Key Features**

- Single 3 core cable for multiple sensors
- Standard alarm Unit 1–16 sensors unlimited with additional power pack
- Individual Sensors with audible visual alarms + relay – optional standalone
- Connect directly to the FLS Combi system or its accessories - CANbus
- Sensors pre-set and tested
- Toxic/Flammable/Oxygen/Refrigerant sensor combination
- Two alarm levels – with options
- Four zone indicators
- Designed for ease of installation
- System easily extended
- Off the shelf system



The Frontline 203 gas leak detection system features remote sensors connected to the main control unit via a single 3 core cable. The control unit is of an advanced design using the latest technology and provides a high integrity system whilst enabling a significant cost saving over conventional gas alarm systems. Standard sensors for use in commercial and light industrial applications such as laboratories, workshops, boiler plant rooms etc are available for monitoring toxic, flammable or refrigerant gases. Each sensor incorporates a status LED, alarm sounder and relay. Sensor types may be mixed and up to 16 in number for the standard control unit, or unlimited when used with an optional auxiliary power pack. Alternatively sensors may be used separately without a control unit providing they are powered by a 24volt DC supply.

**Operation**

The control unit provides four zones to which any quantity or combination of sensors may be connected each providing low and high indicators with sounder and low/high selectable relay. On power up, the green power indicator will flash for 3 minutes indicating that the sensors are stabilising, during this period all alarm functions are held in the off condition.

After the stabilisation period, any sensor detecting gas will provide a local flashing red L.E.D, going constant when accepted, and audible alarm with a selectable relay activating from either alarm 1 or 2 which may be used to activate indicators / control systems. Each activated sensor will report back to the control unit initiating onboard indicators, relays and sounder.

**Technical Specifications - Control Unit****Power Supply**115/230vAC or 24vDC  $\pm$  15%

The two voltages may be used at the same time (standby battery)

**Frequency**

50/60 Hz

**Consumption**

3 watts

**Detector Head**

1 to 16 standard - unlimited with additional power pack

**Sensor Cable**3 core 1mm<sup>2</sup> Cable length - 200m max x4**Dimensions**

L 200mm x H 150mm x D 80mm

**Weight**

920 gms

**Indicators**

Power - (Green LED)

Alarm 1 - (Flashing red alarm LED and intermittent sounder) latch/unlatch options

Alarm 2 - (Flashing red alarm LED and constant sounder) - latch/unlatch options

Fault - (Amber LED and sounder) Fault monitoring - sensor/sensor cable/control unit - non latching

**Alarm Relays**

Four link selectable relays S.P.C.O - NE/ND

**Relay Inhibit**

Front panel access

**Ambient Temperature**

Operation: -5 to +50°C

Storage: +5 to +55°C

**Protection**

IP65

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**Technical Specifications - Sensor & Testing**

**Sensor Type**

Catalytic - flam / Electrochemical - toxic / Semiconductor - refrigerant

**Power Supply**

18 to 30v DC

**Consumption**

1.2 W

**Alarm Relay**

1 SPCO selectable NE/ND - A1 or A2

**Indicators**

Power (Green Led)

Gas Alarm (green to flashing red – alarm 1 or 2 constant when accepted)

**Ambient Temp**

Operation: -5 to 50°C

Storage: +5 to +55°C

**Protection**

IP42

**Weight**

115gms

**Dimensions**

L 83mm x H 83mm x D 36mm

**Options**

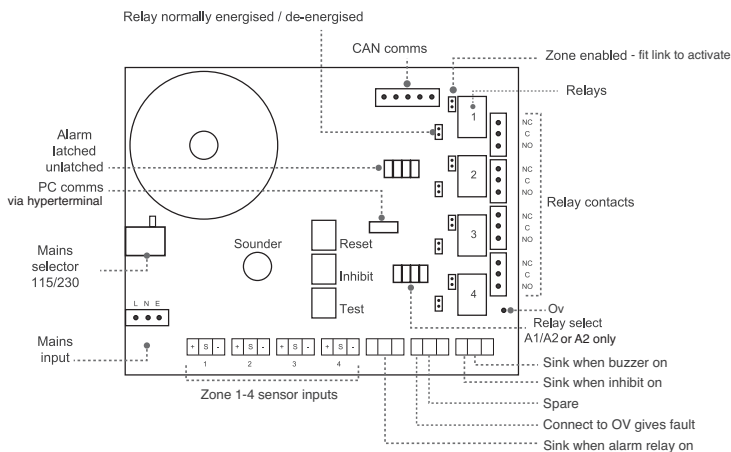
Duct Sensor Probe

The system may be electrically tested by pressing the test pad located on the control unit for 5 seconds, after which the LED sequence will be initiated.

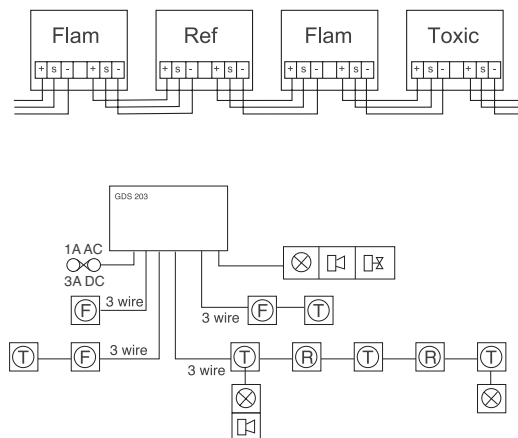
Each sensor has an individual internal test switch which when pressed simulates gas present and turns the green led to red and switches the sounder on.

To ensure that the system responds correctly to the presence of gas, each sensor should be exposed to test gas. It is advisable to carry out this test at least every six months.

**CONTROL UNIT**



**SENSORS 3 WIRE**



**FLAMMABLE SENSOR**

