- High integrity system
- Flammable, oxygen or toxic gases
- Wide range of enclosures, wall-panel mount, desktop or floor standing
- 3 adjustable alarm trip points
- 3 alarm relays per module
- Unlimited number of sensor points
- Standby battery charger module
- High integrity system





## **Application**

The GDS 2010 has been designed with features that will provide an effective response to the detection and control of gas hazards in a wide range of industrial environments from boiler plant rooms to offshore petrochemical installations.

The system is offered in a wide range of enclosures, from single module din rail mounting to multi-channel interconnected 19" rack based tower systems of unlimited size.

Each alarm module operates independently having alarm status indicators, sounder and three alarm levels with individual relays for the control of remote safety systems. 4-20mA or 0-10V outputs are available for use in proportional control systems such as speed control of extractor fans.

Common alarm relays and indicators are available via an optional facilities module which can be plugged into any available module socket on the system. The facilities module can also be used remotely as a control and status indicator panel, having built-in sounder with sounder accept and alarm reset functions.

The advanced features designed into the GDS2010 system ensure ease of maintenance and provide the highest integrity rating, with the minimum loss of sensor cover should a fault condition occur.

Technical Data ref C572

## **Detector Module**

Indicators

Relays

**Audible Alarm** 

**Measuring Range** 

1 to 14 per 19" trayCombustible – % L.E.L

Toxic – ppm

Oxygen – % Vol

Digital Display

• Power indicator - Green L.E.D

• Alarm Relays Inhibit – Amber L.E.D

• Alarms Lo-Hi-Red L.E.D (Alarms 1 & 2)

• Overrange-Red L.E.D (Alarm 3)

Fault – Amber L.E.D

 Alarms Lo, Hi SPCO N/D or N/E latched / unlatched

 Fault SPCO N/D or N/E latched/unlatched

All relays rated 5A/230vAC

· Alarm relays, inhibit switch

 Alarms 1,2,3, Fault Disable option

Analogue Output • 4-20mA  $-250 \Omega$  $0-10v - 1K \Omega$ 

Sensor Inputs • 4-20mA – 2/3 wire

Bridge type 3 wire-mv

**Facilities Module** 

**Relays Common** 

**Audible Alarm** 

**Indicators** 

1 per SystemPower-Green LED

Alarms Lo, Hi, Overrange-Red LED

Fault-Amber LED

Alarms Lo, Hi, Overrange, Fault, SPCO

• N/D or N/E latched/unlatched

Mains fail N/E unlatched

All relays rated 5A/230vAC

 Alarms Lo, Hi, Fault Disable option

Standby Battery Module • 1 per System - 24vDC

Indicators • Power-Green LED

High Battery Volts - Red LED

• Low Battery Volts - Red LED

• Charge Fail - Amber LED

2A standard 7A option

Charging Method Load Capacity @24v Miscellaneous

Sensor Cable

Screened 1.5mm²

Constant Voltage

Bridge - 1km
 4-20mA - 2.5km

Field Terminals

Module Dimensions

**Environmental** 

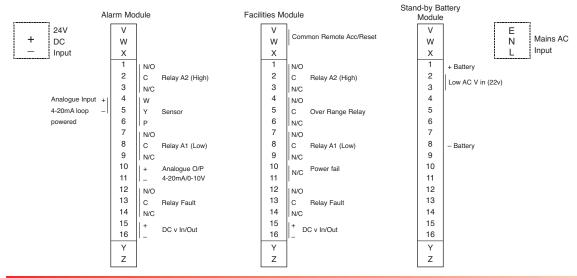
Screw type up to 2.5mm

3U High (128mm)
 6E Wide (30mm) Depth (160mm)

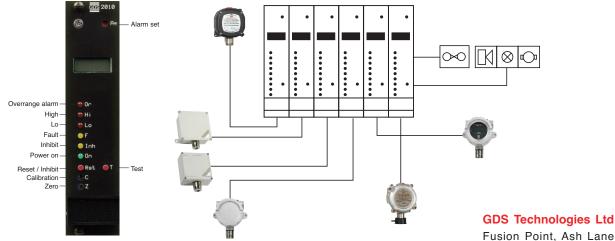
Operating Temp -10 to 50°C

• Humidity 0 - 90 RH

## Alarm/Facilities/Stand-by Battery Charger - mother board field terminal connections



## **System Configuration**







Garforth, Leeds LS25 2GA
Tel +44 (0)113 286 0166
Fax +44 (0)113 287 8178
sales@gds-technologies.co.uk
www.gds-technologies.co.uk

