

The Professional *PGD3-IR* Gas Detector

Key Features



- Uniquely equipped with two independent infrared sensors providing hydrocarbon and CO₂ monitoring
- Instrument and sensors guaranteed for two years
- Designed for rugged environments - can withstand physical abuse and short-term immersion in water
- Large, backlit graphical display
- Data logging facility available as standard
- 360° Visual Alarm

The **Mentor PGD3-IR** is an intrinsically safe portable **multi-gas** instrument manufactured in the United Kingdom for use in Group II potentially explosive atmospheres. The instrument is intended to be used for the protection of personnel entering or working within an environment where a gas hazard may exist.

It can be fitted with up to 4 sensors using various detection techniques to monitor flammable gases, oxygen and toxic gases. Combinations can include two infrared sensors, one infrared sensor, plus oxygen and toxic sensors. The flammable infrared sensor does not detect hydrogen - should this be a gas required then an electrochemical hydrogen sensor may be fitted.

Using the PC Interface facilities, automatic data logging allows exposure levels to be stored for down loading to a personal computer and data retrieval following any incidents.

PC Interface Facilities



Specification

Size	185mm high x 108mm wide x 50mm deep (excluding rubber case)
Weight	1Kg
No. of Gases	Up to four
Sensor Types	Infrared, electrochemical
Certification Data	Certificate No. Baseefa 03ATEX0235X Code II 2 G EEx ia IIC T3
Power Source	Rechargeable nickel-cadmium battery pack type PGD/BATT
Minimum operating time	12 hours
Visual indications	i) 100 X 32 pixel LCD graphical display with backlight ii) Large flashing red lens section used to indicate alarm conditions.
Audible indication	Electromagnetic alarm in red lens section
Alarm levels	Flammable : single level instant alarm Toxic (each sensor) : 3 levels - instant, STEL, LTEL Oxygen : 2 levels - instant low, instant high
COSHH monitoring	Automatic calculation of STEL and LTEL readings.
Data Logging	i) Automatic variable rate according to gas concentrations or ii) Off
Display formats	i) Chemical units (ppm, %, LEL), or ii) go / nogo format (available on request)
Controls	i) Front panel - on/off, right arrow, left arrow, on/off/menu ii) Top panel - display backlight, alarm mute
Temperature range	i) Operating -5 to +50 °C ii) Storage -20 to +50 °C
Environmental Rating	IP66
Humidity range	15% to 95% relative humidity, non-condensing. Operation is possible in the range 0-100% R.H however; sensor life will be reduced by continuous operation at extremes of humidity and temperature.
Performance	Compliant with BS EN 61779 : 2000
Electromagnetic compatibility	CE Marked, Tested to BS EN 50270:1999
Air Pressure Operating Range	920 mbar to 1150 mbar

Manufactured in UK

For more information or a quotation please [contact us](#)