

# STATUS SCIENTIFIC CONTROLS

Status Mentor PGD2

PORTABLE GAS DETECTION EQUIPMENT



## The Professional Gas Detector

Certified Intrinsically Safe to current European & American Standards Ex 90C2080, EX 90Y2081, UL 202L

With Proven Reliability and Ultra-Low Cost of Ownership



### Key Features

- Ultra low cost of ownership – because of the instrument's proven robustness
- Instrument and sensors guaranteed for two years
- Designed for rugged environments - can withstand physical abuse and short-term immersion in water
- Impact and Water Resistance to IP66
- Pre-programmed internal flammable gas menu
- Data logging facility available as standard
- 360° Visual Alarm
- In-vehicle charging systems available

The Status Scientific Controls **Mentor PGD2** 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 or is known to exist.

It can be fitted with up to 4 sensors in various combinations of flammable, oxygen and toxic gases to provide simultaneous monitoring of each gas.

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.

The pre-programmed flammable gas menu

#### FLAMMABLE GAS MENU

Via the 'MENU' select button any one of a number of flammable gases may be chosen as show below, these are monitored by a common sensor

Methane	MEK
Ethane	Ketone
Propane	Ethylene
Butane	IPA
Pentane	Propylene
Hexane	Triethylamine
Heptane	Hydrogen
Nonane	Others -user defined
Methanol	via PC software

PC Interface Facilities



## Specification



<b>Size</b>	185mm high x 108mm wide x 50mm deep (excluding case)
<b>Weight</b>	1Kg
<b>No. of Gases</b>	Up to four
<b>Gas Types</b>	Flammable, Toxic, Oxygen
<b>Certification Data</b>	Certificate No.'s : Ex 90C2080 Code EEx ia IIC T3 & Ex 90Y2081 Code Ex ia s IIC T3
<b>Power Sources</b>	Either of the following battery modules to BASEEFA Certificate No. Ex90C2082U:- i) rechargeable battery pack type PGD/BATT ii) dry cell battery pack type PGD/DRYBATT iii) remotely powered unit type PGD/REMBATT fed from an external supply having Umax=3.3volts, Imax=3.33Amps
<b>Minimum operating times</b>	Rechargeable versions - 12 hours Dry cell versions - 24 hours
<b>Visual indications</b>	i) 2 x 16 character LCD display with backlight ii) Large flashing red lens section used to indicate alarm conditions.
<b>Audible indication</b>	Electromagnetic alarm in red lens section
<b>Alarm levels</b>	Flammable : single level instant alarm Toxic (each sensor) : 3 levels - instant, STEL, LTEL Oxygen : 2 levels - instant low, instant high
<b>COSHH monitoring</b>	Automatic calculation of STEL and LTEL readings.
<b>Data Logging</b>	i) Automatic variable rate according to gas concentrations, or ii) Fixed rate, or iii) Off
<b>Display formats</b>	i) Chemical units (ppm, %, LEL), or ii) go / nogo format (available on request)
<b>Controls</b>	i) Front panel - on/off, right arrow, left arrow, on/off/menu ii) Top panel - display backlight, alarm mute
<b>Temperature range</b>	i) Operating -5 to +40 ° C ii) Storage -20 to +50 ° C
<b>Environmental Rating</b>	IP66
<b>Humidity range</b>	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.
<b>Electromagnetic compatibility</b>	CE Marked, Tested to EN50081-2, EN50082-1, EN55022 (Limit B)
<b>Air Pressure Operating Range</b>	920 mbar to 1150 mbar

### **Status Scientific Controls Ltd**

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