

# Status Scientific Controls

gas detection technology...



## PGD2 Nato Gas Detector for Aviation Fuels



2 Versions available:-

- ❖ SS1000 Fuel Tank Entry - Aviation Fuel /Oxygen / Hydrogen Sulphide / VOC
  - NATO STOCK No. 6665-99-957-6835
- ❖ SS1000FM Fuel Tank and Confined Space Entry - Aviation Fuel / Flammable / Oxygen / Hydrogen Sulphide
  - NATO STOCK No. 6665-99-422-2056 FACILITIES MANAGEMENT

BASIC MENU OF PETROLEUM PRODUCTS THAT CAN BE DETECTED BY THE AVIATION SENSOR			
Petroleum Products	NATO Code No.	U.S. Designator	Flash Point
Class 1	F-40	JP4	Below 21°C
Class 2	F-34	JP8	21°-55°C
Class 3	F-44	JP5	55°-100°C
General		Diesel	
		Petrol	-20°C

The aviation sensor in both instruments is pre-calibrated in propane and all the necessary correction factors for the listed petroleum products are contained within the in-built software. The required fuel is selected via the MENU in the instrument and the values displayed are automatically corrected for the chosen fuel. The alarm levels are also all automatically corrected for each fuel.

### Fuel Tank Entry Instrument

As well as the aviation sensor, this instrument has sensors to measure oxygen, hydrogen sulphide and V.O.C's.

### Facilities Management Instrument

As well as the aviation sensor, this instrument has sensors to measure other flammable gases, oxygen and hydrogen sulphide. The MENU allows you to decide if you want to use the aviation sensor or use the instrument as a standard confined space instrument for flammable gases, oxygen and hydrogen sulphide.

This instrument has a flammable gas menu where when in the standard confined space mode, you can select the flammable sensor to read one of the following gases:

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

Both instruments are supplied as kits and include the following:

- 1 x Instrument
- 1 x Interface Charger
- 1 x Internal Pump
- 1 x Aviation Probe
- 1 x Metal Flight Case



### Specification

Size	185mm high x 108mm wide x 50mm deep (excluding case)
Weight	1Kg
No. of Gases	Up to four
Gas Types	Flammable, Toxic, Oxygen
Certification Data	Certificate No. Baseefa 03ATEX0235X Code II 2G EEx ia IIC T3
Power Source	Rechargeable battery pack type PGD/BATT
Minimum operating time	12 hours
Visual indications	i) 2 x 16 character LCD 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) Fixed rate, or iii) 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 +40 <sup>o</sup> C ii) Storage -20 to +50 <sup>o</sup> 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.
Electromagnetic compatibility	EN 50270:2006
Air Pressure Operating Range	920 mbar to 1150 mbar