

PS500 (5 in 1)

Portable/Personal Gas Detector



Designed for marine use, this robust and accurate gas detector provides unrivalled protection in confined space applications.

Features

- 5 in 1 (O2/H2S/CO/LEL/CO2) “plug-and-play” smart sensors
- CO2 Range 0 to 5% (Comply New IMO para. 7.4)
- Flexible configuration to suit your requirements
- Audible and visual alarms
- Datalogging for calibration certificates, data management and event logging
- Robust construction
- Internal sampling pump (Comply New IMO para. 7.3)
- For use for both pre-entry and monitoring
- Option of auto or manual calibration options (Comply New IMO para. 8.2)
- Easy maintenance
- Low cost of ownership

Sensor Specification				
Gas	Ranges	Resolution	Sensor Type	T90
LEL	0 - 100% LEL	1% LEL	Cat-bead	15 sec
	0 - 100% LEL	1% LEL	NDIR	35 sec
CO2	0 - 2.50%	0.01%	NDIR	25 sec
	2.50 - 5.00%	0.05%		
O2	0 - 25%	0.1%	Electrochemical	10 sec
DUAL TOX CO/H2S	0-1000PPM(CO)	1PPM	Electrochemical	35 sec
	0-100PPM(H2S)			25 sec

PS500

Portable5Gas Monitor

Description

The PS500 can be configured to detect up to five gases with its electrochemical and catalytic sensors, photo ionisation detectors (PID), and infrared capabilities.

“Plug and Play” maximizes flexibility by allowing other gases to be detected, by simply inserting a new smart sensor assembly.

The PS500 is effective in noisy environments, featuring a loud (95dB) penetrating and distinctive audible alarm together with a high visibility visual alarm.

With a robust, rubberized casing guaranteeing hi-Impact resistance, the PS500 is ideal for the most demanding industrial environments. An optional internal pump allows both pumped or diffusion measurements. If the pump is fitted, it can be easily turned on/off, depending on application. E.g. pump perform pre-entry measurements correctly, pump off for confined space working.

Technical Specification

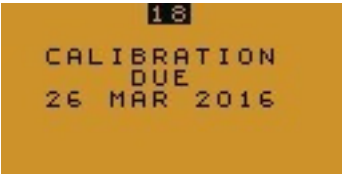
Size:	140 x 85 x 45 mm / 5.5" x 3.3" x 1.7"
Weight:	0.4 kg / 14 oz.
Humidity:	0-98% non condensing
Alarms:	Visual 360o full light bar, piercing 95db audible Low battery alarm User programmable alarms: Up to 4 alarms per toxic gas (incl. STEL / TWA) 3 alarms for O2 2 alarms for LEL
Display:	LCD backlight display
Datalogging:	Timed: 24 hours of timed logs at 1 log per minute Session: Minimum of 180 logs Calibration: 8 calibration logs
Sampling:	Maximum tubing length - 30 m / 98 ft. (Response times increase by approx. 1 second for every metre / 3 ft. of tubing used)
Battery:	NiMH rechargeable battery - 12 hr. minimum with pump Alkaline battery pack (3 AA) - 12 hr. minimum with pump
Enclosure:	High impact rubberised polycarbonate case
IP Rating:	IP65 (Dust tight and water resistant)
Approvals:	* UL 913 Class I, Div 1 Groups A,B,C,D MED (0038/YY) - Module B & E CE ATEX II 2 G EEx iad IIC T3 / T4
IECEX:	Ex iad IIC T4/T3
Warranty:	2 years

* Excludes NDIR sensor option.

Features



Display in alarm conditions



Configurable calibration options

Automatic Bump Testing and Calibration

To provide accurate performance and results, the PS500 has to be properly used and maintained. The Auto Bump & Calibration Station (ABC) provides bump testing, calibration and data management options and is compact, robust and intuitive to use. Two versions of the ABC are available allowing either a single gas cylinder or up to three cylinders to be connected. Additionally, a special three cylinder version is available for reactive gases. The ABC is fully configurable and can operate in three distinct modes of operation:



Standalone

- No PC or network connection required
- Simple setup and configuration
- Results stored on ABC
- USB access for results extraction
- Settings App for easy printing of calibration certificates

PC

- PC / laptop connected to ABC
- Setup and configuration using flexiCal Plus software
- Results stored in the PC / laptop
- Easy access to all results
- Powerful data management / calibration certificate generation

Ethernet

- Multiple ABC's can be connected to a network
- Setup and configuration using IMS Settings software
- All results stored in the IMS database
- Easy access to all results
- Powerful data management / calibration certificate generation

Auto Bump & Calibration Station Technical Station

Size:	200 x 140 x 135mm (7.9" x 5.5" x 5.3")
Weight:	Singe Gas - 1.2kg (43oz)
Interfaces:	Standalone /USB /Ethernet
LED Indicators:	Power (Green) /Testing (Orange) / Pass (Green) / Fail (Red)
Testing Time:	Bump Test 150 secs Calibration Test 150 secs
Data Storage:	Up to 6000 Bump & Calibration results
Power Supply:	12V dc, 2A
Operating Temperature:	-10oC to 40oC (14oF to 104oF)
Gas Ports:	Single Gas - 3 (Air, Gas & Exhaust)

PS500

Ordering information

Long duration battery pack and instrument with fast charge battery pack, charging in Fast Charger master / slave units.



Battery / Charger Accessories

6 6 701	Long duration rechargeable battery pack
66702	Alkaline battery pack (3 x AA batteries)
66703	Fast charge rechargeable battery pack
66140	Standard charger - c/w universal plug (for 66701)
66200	5-way charger - c/w universal plug (for 66701)
66207	10-way charger - c/w universal plug (for 66701)
66206	Car/vehicle charger 12/24V (for 66701)
66513	Fast charger - c/w universal plug
66516	10-way fast charger master unit - c/w universal plug
66514	10-way fast charger slave unit - c/w universal plug

Recommended Accessories / Spare Parts

66485	Hydrophobic filter - external inline
66136	3m sample line (Tygon® tubing) with connector
66930	3m reactive gas tubing with connector
66028	Neck harness
66017	Probe assembly
612 0 8	Datalogging package
61445	PS500 CAL - Calibration Package
66083	Sensor grill hydrophobic filter
66084	Sensor gas inlet filter
66108	Blank sensor plug
66190	Pump assembly kit - includes pump, tubing and fittings

Automatic Bump & Calibration

61502	Auto Bump & Calibration Station - single gas connection (6mm fittings & incl. PSU & USB stick with Standalone software)
99553	flexiCal Plus software for PC
9 9 118	Demand flow regulator
64265	Tubing with 6mm push fit connection (for 61502)
615 4 0	600mm reactive gas tubing (for 61504R)
64443	6mm Push fit Barbed Adaptor

Gas Kits for Automatic Bump & Calibration Station

99148	5 IN 1 Combi Test Gas Cylinder 2.5% CH ₄ , 100ppm CO, 25ppm H ₂ S, 17% O ₂ , 2.5% CO ₂ balance N ₂
64068	Test Gas Kit (Combi test gas 99148, demand flow regulator 99118 c/w 6mm tubing Calibration / Bump Test Simple Guide)

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