



The 5-gas detection solution

PS500



Designed by our customers, this robust and accurate gas detector provides unrivalled protection in confined space applications.

- Over 15 plug-and-play smart sensors to choose from
- Wide range of VOC's with 2 different PID sensors
- Flexible configuration to suit your specification
- Piercing 95 dB audible plus 360-degree high-visibility light bar
- On-board datalogging for calibration certificates, data management, and event logging
- High impact rubberised case
- IP65
- Low cost of ownership

Detection, Protection, Innovation



GMI. CONFIDENCE WHERE SAFETY IS CRITICAL. Gas Measurement Instruments designs, manufactures and markets a wide range of the highest quality proven personal portable and fixed gas monitoring systems. GMI is an international brand with a worldwide network of distributors and dedicated service centers ensuring fast and effective turnaround on instrument calibration and repair. Our uncompromising engineering excellence, established in over half a century of leadership, enables us to meet the exacting demands of industries where safety is critical. By building and maintaining strong relationships with our customers, GMI understands the unique challenges of the diverse markets we serve. Today, our proud heritage of pioneering gas leak monitors and detectors is shaping the future of GMI.



PS500



The PS500 can be tailored to detect up to five gases with its toxic and catalytic sensors, photo ionisation detectors, and infrared capabilities. "Plug and Play" option allows the customer to "plug in" a new board with a different gas range.

The PS500 is particularly useful in noisy environments, featuring a very loud (95dBA) penetrating and distinctive audible alarm together with high visibility large area visual alarm. Pump, diffusion or both together, allowing pumped sample for pre-entry checking and diffusion in confined space working, thus maximising battery life. A robust, moulded, rubberised casing guaranteeing Hi-Impact resistance, the PS500 can be used in the most demanding industrial environments.

PS500 SENSOR SPECIFICATION

GAS	RANGE	RESOLUTION	SENSOR TYPE	T90
LEL	0-100% LEL	1% LEL	Cat-bead	15 sec
	0-100% LEL	1% LEL	NDIR	35 sec
CO ₂	0-5% V	0.05% V	NDIR	25 sec
O ₂	0-25%	0.1%	Electrochemical	10 sec
CO	0-1000PPM	1PPM	Electrochemical	35 sec
H ₂ S	0-100PPM	1PPM	Electrochemical	25 sec
DUAL TOX CO/H ₂ S	0-1000PPM(CO)	1PPM	Electrochemical	35 sec & 25 sec
	0-100PPM(H ₂ S)			
SO ₂	0-30PPM	1PPM	Electrochemical	10 sec
	0-100PPM			
CL ₂	0-10PPM	0.1PPM	Electrochemical	30 sec
NH ₃	0-100PPM	1PPM	Electrochemical	60 sec
NO	0-300PPM	1PPM	Electrochemical	20 sec
NO ₂	0-20PPM	1PPM	Electrochemical	185 sec
PH ₃	0-100PPM	1PPM	PID	5 sec
VOC	0-100PPM	0.1PPM	PID	5 sec
	0-1000PPM			
C ₆ H ₆	0-20PPM	0.1PPM	PID	5 sec

PS500 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 360° full light bar, piercing 95db audible 4 gas alarms per gas user programmable TWA/STEL alarms visual and audible Low flow visual and audible Low battery alarm Up to 4 alarms per toxic gas, user programmable 3 alarms for O ₂ , 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: Minimum of 8 calibration logs
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
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 CE0518 ATEX II 2 G EEx iad IIC T3 / T4
IECEX:	EEx iad IIC T3/T4
Warranty:	2 years

* Excludes NDIR sensor option.

RECOMMENDED ACCESSORIES/SPARE PARTS

66485	Hydrophobic filter - external inline
66702	Alkaline battery pack (3 AA batteries)
66136	3m sample line (Tygon® tubing) with connector
66142	3m Viton tubing with connector (PID unit only)
66028	Neck harness
66017	Probe assembly
61208	Datalogging package
66083	Sensor grill hydrophobic filter
66084	Sensor gas inlet filter
66108	Blank sensor plug
66206	Car/vehicle charge 12/24V
66190	Pump assembly kit - includes pump, tubing and fittings

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