



## 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

For pricing or any further information, please contact Omni Instruments Ltd.

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# 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 <sub>2</sub>	0-5% V	0.05% V	NDIR	25 sec
O <sub>2</sub>	0-25%	0.1%	Electrochemical	10 sec
CO	0-1000PPM	1PPM	Electrochemical	35 sec
H <sub>2</sub> S	0-100PPM	1PPM	Electrochemical	25 sec
DUAL TOX CO/H <sub>2</sub> S	0-1000PPM(CO) 0-100PPM(H <sub>2</sub> S)	1PPM	Electrochemical	35 sec & 25 sec
SO <sub>2</sub>	0-30PPM	1PPM	Electrochemical	10 sec
	0-100PPM	1PPM	Electrochemical	10 sec
Cl <sub>2</sub>	0-10PPM	0.1PPM	Electrochemical	30 sec
NH <sub>3</sub>	0-100PPM	1PPM	Electrochemical	60 sec
NO	0-300PPM	1PPM	Electrochemical	20 sec
NO <sub>2</sub>	0-20PPM	1PPM	Electrochemical	185 sec
PH <sub>3</sub>	0-100PPM	1PPM	PID	5 sec
VOC	0-100PPM	0.1PPM	PID	5 sec
	0-1000PPM	1PPM	PID	5 sec
C <sub>6</sub> H <sub>6</sub>	0-20PPM	0.1PPM	PID	5 sec

## PS500 TECHNICAL SPECIFICATION

<b>Size:</b>	140 x 85 x 45 mm / 5.5" x 3.3" x 1.7"
<b>Weight:</b>	0.4 kg / 14 oz.
<b>Humidity:</b>	0-98% non condensing
<b>Alarms:</b>	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 <sub>2</sub> , 2 alarms for LEL
<b>Display:</b>	LCD backlight display
<b>Datalogging:</b>	Timed: 24 hours of timed logs at 1 log per minute Session: Minimum of 180 logs Calibration: Minimum of 8 calibration logs
<b>Battery:</b>	NiMH rechargeable battery—12 hr. minimum with pump Alkaline battery pack (3 AA)—12 hr. minimum with pump
<b>Enclosure:</b>	High impact rubberised polycarbonate case
<b>Rating:</b>	IP65 (Dust tight and water resistant)
<b>Approvals:</b>	* UL 913 Class I, Div 1 Groups A,B,C,D MED 0 (0038/YY) - Module B & E CE 0518 ATEX II 2 G EEx iad IIC T3 / T4
<b>IECEX:</b>	EEx iad IIC T3/T4
<b>Warranty:</b>	2 years

\* Excludes NDIR sensor option.

## RECOMMENDED ACCESSORIES/SPARE PARTS

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

Whilst every effort has been made to ensure the accuracy of this specification, we cannot accept responsibility for damage, injury, loss or expense from errors or omissions. In the interest of technical improvement, this specification may be altered without notice.

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