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

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.
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

<table>
<thead>
<tr>
<th>GAS</th>
<th>RANGE</th>
<th>RESOLUTION</th>
<th>SENSOR TYPE</th>
<th>T90</th>
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<tbody>
<tr>
<td>LEL</td>
<td>0-100% LEL</td>
<td>1% LEL</td>
<td>Cat-bead</td>
<td>15 sec</td>
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<tr>
<td>CO₂</td>
<td>0.5%</td>
<td>0.06%</td>
<td>NDIR</td>
<td>35 sec</td>
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<tr>
<td>O₂</td>
<td>0-25%</td>
<td>0.1%</td>
<td>Electrochemical</td>
<td>10 sec</td>
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<tr>
<td>CO</td>
<td>0-1000PPM</td>
<td>1PPM</td>
<td>Electrochemical</td>
<td>35 sec</td>
</tr>
<tr>
<td>H₂S</td>
<td>0-100PPM</td>
<td>1PPM</td>
<td>Electrochemical</td>
<td>25 sec</td>
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<tr>
<td>DUAL TOX</td>
<td>0-1000PPM/CO</td>
<td>1PPM</td>
<td>Electrochemical</td>
<td>35 sec &amp; 25 sec</td>
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<tr>
<td>SO₂</td>
<td>0-30PPM</td>
<td>1PPM</td>
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<td>10 sec</td>
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<tr>
<td>Cl₂</td>
<td>0-10PPM</td>
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<td>Electrochemical</td>
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<tr>
<td>NH₃</td>
<td>0-100PPM</td>
<td>1PPM</td>
<td>Electrochemical</td>
<td>60 sec</td>
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<tr>
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<td>0-30PPM</td>
<td>1PPM</td>
<td>Electrochemical</td>
<td>20 sec</td>
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<tr>
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<td>0-20PPM</td>
<td>1PPM</td>
<td>Electrochemical</td>
<td>185 sec</td>
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<td>PH₃</td>
<td>0-10PPM</td>
<td>1PPM</td>
<td>PID</td>
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<td>1PPM</td>
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<tr>
<td>C₆H₆</td>
<td>0-20PPM</td>
<td>0.1PPM</td>
<td>PID</td>
<td>5 sec</td>
</tr>
</tbody>
</table>

### 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, percing 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 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: 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
  - ATEX II 2 G Ex ia IIC T3 / T4
  - IECEx: EEx iad IIC T3/T4
- **Warranty:** 2 years

### 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