



## Gas & Flame Detection



# 3M™ GMI™ PS500

## Portable 5 Gas Monitor

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

### Auto Bump & Calibration Station

- Simple user interface
- Bump test or calibration
- Bump/calibration results storage
- Standalone, PC or Ethernet options
- Robust construction

### Features

- Over 15 “plug-and-play” smart sensors
- PID sensors for VOC detection
- Flexible configuration to suit your requirements
- Audible and visual alarms
- Datalogging for calibration certificates, data management, and event logging
- Robust construction
- Internal pump (optional)
- Easy maintenance
- Low cost of ownership



# 3M™ GMI™ PS500

## Portable 5 Gas 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.

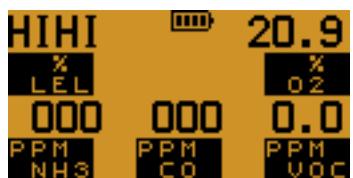
With a robust, rubberized casing guaranteeing hi-Impact resistance, the PS500 is ideal for the most demanding industrial environments. An optional internal pump allows both pumped or diffusion measurements. If the pump is fitted, it can be easily turned on/off, depending on application. E.g. pump on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

### Technical Specification

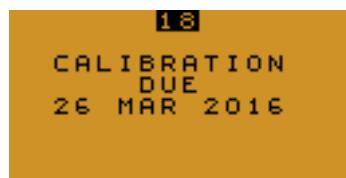
|              |   |
|--------------|---|
| Size:        | 140 x 85 x 45 mm / 5.5" x 3.3" x 1.7"   |
| Weight:      | 0.4 kg / 14 oz.   |
| Humidity:    | 0-98% non condensing  |
| Alarms:      | Visual 360o full light bar, piercing 95db audible<br>Low battery alarm<br>User programmable alarms:<br>Up to 4 alarms per toxic gas (incl. STEL / TWA)<br>3 alarms for O2<br>2 alarms for LEL |
| Display:     | LCD backlight display   |
| Datalogging: | Timed: 24 hours of timed logs at 1 log per minute<br>Session: Minimum of 180 logs<br>Calibration: 8 calibration logs  |
| Sampling:    | Maximum tubing length - 30 m / 98 ft.<br>(Response times increase by approx. 1 second for every metre / 3 ft. of tubing used)   |
| Battery:     | NiMH rechargeable battery - 12 hr. minimum with pump<br>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<br>MED (0038/YY) - Module B & E<br>CE 0518<br>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



VOC target gas selection

## 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)<br>Multi Gas - 1.35kg (48oz)                         |
| Interfaces:            | Standalone /USB /Ethernet   |
| LED Indicators:        | Power (Green) /Testing (Orange) / Pass (Green) /Fail (Red)                    |
| Testing Time:          | Bump Test 150 secs<br>Calibration Test 150 secs                               |
| Data Storage:          | Up to 6000 Bump & Calibration results   |
| Power Supply:          | 12V dc, 2A  |
| Operating Temperature: | -10°C to 40°C<br>(14°F to 104°F)  |
| Gas Ports:             | Single Gas - 3 (Air, Gas & Exhaust)<br>Multi Gas - 5 (Air, Gas x 3 & Exhaust) |

# 3M™ GMI™ PS500

## Ordering information

| 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             |
| CO <sub>2</sub>                 | 0 - 2.50%                                   | 0.01%      | NDIR            | 25 sec             |
|                                 | 2.50 - 5.00%                                | 0.05%      |                 |                    |
| 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<br>CO/H <sub>2</sub> S | 0-1000PPM(CO)<br>0-100PPM(H <sub>2</sub> S) | 1PPM       | Electrochemical | 35 sec &<br>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                                   | 0.1PPM     | 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              |

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



| Battery / Charger Accessories                     |  |
|---|--|
| 66701   | 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   |
| 61208   | 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)          |
| 61504   | Auto Bump & Calibration Station - multi gas connections (4mm / 6mm fittings & incl. PSU & USB stick with Standalone software)    |
| 61504R  | Auto Bump & Calibration Station - multi gas connections (for reactive gases CL <sub>2</sub> / NH <sub>3</sub> )                  |
| 99553   | flexiCal Plus software for PC  |
| 99118   | Demand flow regulator  |
| 64265   | Tubing with 6mm push fit connection (for 61502)  |
| 61540   | 600mm reactive gas tubing (for 61504R)   |
| 64443   | 6mm Push fit Barbed Adaptor  |
| 61536   | 4mm Push fit Barbed Adaptor (for 61504)  |
| Gas Kits for Automatic Bump & Calibration Station |  |
| 99146   | Combi Test Gas Cylinder (2.5% CH <sub>4</sub> , 500ppm CO, 50ppm H <sub>2</sub> S, 18% O <sub>2</sub> , balance N <sub>2</sub> ) |
| 64060   | Test Gas Kit (Combi test gas 99146, demand flow regulator 99118 c/w 6mm tubing)  |

As an ISO 9001 approved company, Gas Measurement Instruments quality assurance programmes demand the continuous assessment and improvement of all GMI products. Information in this leaflet could thus change without notification and does not constitute a product specification. Please contact GMI or their representative if you require more details.



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# Les services d'EURO-INDEX

**EURO-INDEX fournit des services pour tous les instruments de sa gamme de fournitures et offre des services, de la connaissance et du personnel hautement qualifié pour l'entretien (préventif), la réparation et le calibrage de vos instruments de mesure.**

## Centre de Service Agréé.....

EURO-INDEX est un Centre de Service Agréé pour toutes les marques représentées.

Autrement dit, vos instruments sont traités par du personnel formé et compétent, qui dispose des outils et logiciels adéquats. Seules des pièces d'origine sont utilisées et la garantie de votre instrument ainsi que la certification (ATEX, EN50379, etc.) restent valables.

## Laboratoire de maintenance et de calibrage .....

EURO-INDEX dispose d'un laboratoire de maintenance et de calibrage particulièrement moderne, titulaire d'une accréditation conforme à la norme NEN-EN-ISO/IEC 17025. Cette accréditation est valable pour différentes grandeurs, telles que spécifiées dans le champ d'application associé au numéro d'accréditation K105.



## MQS® .....

MQS est une formule d'entretien exclusive comportant un entretien et un calibrage périodiques de vos instruments de mesure. La prise en charge de multiples aspects vise à vous libérer de tout souci lors de l'utilisation de vos instruments de mesure. Les coûts sont modiques et prévisibles.

## Accès numérique à vos certificats de calibrage avec Mon MQS .....

Mon MQS est un portail Web qui vous donne accès partout et à tout moment à vos certificats de calibrage et aux documents apparentés.

## Location d'instruments de mesure .....

- Vaste assortiment
- Conseils avisés
- Les instruments sont livrés avec leurs accessoires et leurs certificats de calibrage traçables

## EURO-INDEX Academy .....

- Formations sur les produits (individuelles et collectives)
- Séminaires
- Vidéos de démonstration et d'instruction

**Visionnez la vidéo sur notre chaîne YouTube et découvrez tout ce qu'il vous faut savoir sur MQS**



Guichet des services



Calibrage de l'analyse de gaz de combustion



Séminaires et ateliers



Calibrage de la thermographie

Sous réserve de modifications EURO-INDEX® FR 17001

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