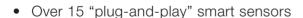




PS500

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



- 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



Auto Bump & Calibration Station

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

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 configured to detect up to five gases with its electrochemical and catalytic sensors, photo ionisation detectors (PID), and infrared capabilities. "Plug and Play" maximises 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, rubberised 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.

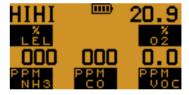
Features



Sample inlet nozzle

| | 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 02, 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 | | |
| 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 ② (0038/YY) - Module B & E C€ 0518 ATEX | | |
| IECEx: | EEx iad IIC T3/T4 | | |
| 147 7 | • • | | |

Warranty: 2 years * Excludes NDIR sensor option.



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.

The ABC is fully configurable and can operate in three distinct modes of operation:



1. 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

2. PC

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

| AUTO BUMP & CALIBRATION STATION TECHNICAL SPECIFICATION | | | | |
|--|--|--|--|--|
| Size: | 200 x 140 x 135mm (7.9" x 5.5" x 5.3") | | | |
| Weight: | Singe Gas - 1.2kg (43oz) 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 Calibration Test 150 secs | | | |
| Data Storage: | >6000 Bump & Calibration results | | | |
| Power Supply: | 12V dc, 2A | | | |
| Operating | -10°C to 40°C | | | |
| Temperature: | (14°F to 104°F) | | | |
| Gas Ports: | Single Gas - 3 (Air, Gas & Exhaust) Multi Gas - 5 (Air, Gas x 3 & Exhaust) | | | |

3. Ethernet

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

PS500

| PS500 SENSOR SPECIFICATION | | | | | | |
|---------------------------------|---|------------------|---------------------------------|--------------------|--|--|
| GAS | RANGE | RESOLUTION | SENSOR TYPE | T90 | | |
| LEL | 0 - 100% LEL 0 - 100% LEL | 1% LEL 1% LEL | Cat-bead NDIR | 15 sec 35 sec | | |
| CO ₂ | 0 - 2.50% 2.50 - 5.00% | 0.01% 0.05% | 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) 0-100PPM(H ₂ S) | 1PPM | Electrochemical | 35 sec & 25 sec | | |
| SO ₂ | 0 - 30PPM 0 - 100PPM | 1PPM 1PPM | Electrochemical Electrochemical | 10 sec 10 sec | | |
| CL ₂ | 0 - 10PPM | 0.1PPM | Electrochemical | 30 sec | | |
| NH ₃ | 0 -1 00PPM | 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 - 1000PPM | 0.1PPM 1PPM | PID PID | 5 sec 5 sec | | |
| C ₆ H ₆ | 0 - 20PPM | 0.1PPM | PID | 5 sec | | |



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

| R | ECOMMENDED 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) |
| 99553 | flexiCal Plus software for PC |
| 99118 | Demand flow regulator |
| 64265 | Tubing with 6mm push fit connection (for 61502) |
| 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 |
| | $(2.5\%CH_4, 500ppm CO, 50ppm H_2S, 18\% O_2, balance N_2)$ |
| 64060 | Test Gas Kit |
| | (Combi test gas 99146, demand flow regulator 99118 c/w 6mm tubing) |

| | 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 |



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.

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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.