Gas detection just got personal

PS200 Series

Part of the Personal Surveyor range

Display reading:
0 % LEL
20.9 % O2
0 PPM CO
0 PPM H2S

Coloured 'rubber boot' for multi-site or multi-application working
(7 colours available)

- Simple 1-button operation
- Any combination of (LEL/O$_2$/CO/H$_2$S)
- Audible, visual and vibrating alarms
- Fully certified
- Internal pump (optional)
- Lightweight
- Sensor integrity checking
- Robust construction
- Ease of maintenance

Auto Bump & Calibration Station

- Simple user interface
- Full bump, calibration and charging options
- Bump/calibration results storage
- Stand-alone, 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.

GMI
Gas Measurement Instruments Ltd

GAS MEASUREMENT INSTRUMENTS LIMITED
GMI
60 YEARS OF INNOVATION

PS200 Series

The PS200 Series detects all possible combinations of LEL, O$_2$, CO, H$_2$S, including single gas detection. In addition to displaying all gas readings simultaneously, the user can also initiate a manual bump test anytime.
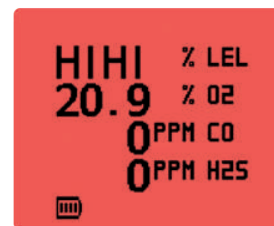
The PS200 accessory pack includes the following as standard: USB Charging/Comms Clip, Universal Power Plug, User CD-ROM, Quick Operating Instructions. Tubing (3m) complete with a Quick Connector is also supplied as standard with pumped instruments.

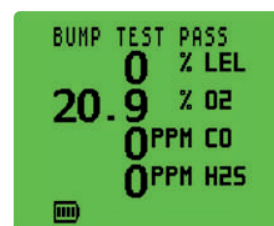| TECHNICAL SPECIFICATION	
Size:	121 x 59 x 32mm (4.8" x 2.3" x 1.3")
Weight:	230g (8oz) with pump 215g (7.6oz) without pump
Temperature:	-20°C to +50°C (-4°F to 122°F)
Humidity:	0 to 95% R.H non-condensing
Alarms:	Highly visible flashing LED, piercing >90dB audible
Display:	Green and red LCD backlight display
Datalogging:	Timed: 24 hours of timed logs at 1 log per minute
	Session: Minimum of 180 logs
	Calibration: Minimum of 8 calibration logs
	Bump Logs: Minimum of 180 logs
Battery:	Lithium Ion rechargeable battery
	Run Time: Up to 14 hrs (diffusion)
	Charging Time < 4 hrs
Enclosure:	High impact rubberized polycarbonate case
Drop Test:	3m (10ft)
IP Rating:	IP67 (Dust-tight and waterproof to 1m)
Response Times (T$_{90}$):	LEL = 10 secs (IEC 60079-29-1)
	O$_2$ = 12 secs (BSEN 50 104)
	CO < 20 secs
	H$_2$S < 20 secs
Approvals:	IEC Ex ia d IIC T4 Gb
	ATEX Ex II 2 G Ex ia d IIC T4
	CSA Class 1 Div 1 Groups A,B,C,D, T4
	Class 1, Zone 1 EX ia d IIC T4
	MED (0038/YY) - Module B & E
	CE 0518
Warranty:	2 years as standard

Features

Green / Red Visual Alarms

Actual Size

On/Off button

Sensors (x3)

Audible Alarm

Charging & communication contacts (x4)

Sample inlet nozzle

Red display in alarm conditions

Configurable calibration options

Configurable bump options

Automatic Bump Testing and Calibration

To complement the Personal Surveyor product line, GMI has developed a compact, robust and easy to use Auto Bump & Calibration Station that can provide full bump and calibration options. Data transfer is facilitated using a USB memory stick with Standalone software that is simple to set up and customise based on end users' specifications. Standalone, PC, and ethernet versions are available.

Standalone

By adding the Auto Bump & Calibration Station to your PS200 package, data can be easily retrieved using specific software in a user-friendly time logged format. This gives you the ability to create and print your personalised calibration certificate.

PC

Allows easy configuration (bump test or calibration) of Auto Bump & Calibration Station and allows all results to be automatically stored to a database on the PC. The stored results can be easily viewed and calibration certificates produced. The history of all results can be easily viewed and reports of instruments can be easily compiled.

Ethernet

Same as PC except multiple units can be connected to a network allowing one PC to control and receive data.

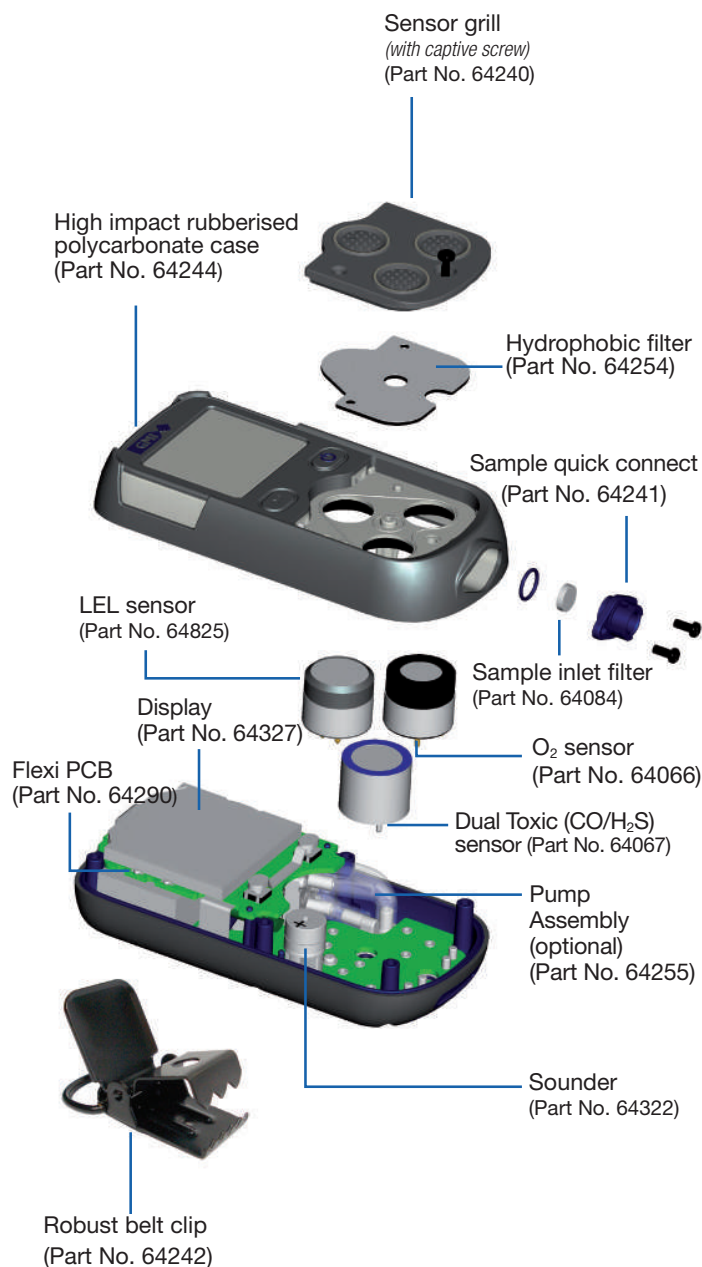### AUTO BUMP & CALIBRATION STATION TECHNICAL SPECIFICATION

Size:	200 x 140 x 135mm (7.9" x 5.5" x 5.3")
Weight:	1.2kg (43oz)
Interfaces:	Standalone /USB /Ethernet
LED Indicators:	Power (Green) /Testing (Yellow) /Pass (Green) / Fail (Red)
Testing Time:	Bump Test 60 secs Calibration Test 90 secs
Data Storage:	>6000 Bump & Calibration results
Power Supply:	12V dc, 2A
Operating Temperature:	-10°C to 40°C (14°F to 104°F)
Gas Ports:	3 (Air, Combi Gas & Exhaust) Contact GMI for other combinations

SENSOR SPECIFICATIONS

GAS	RANGES	INCREMENTS	SENSOR TYPE
LEL	0-100% LEL	1% LEL	Catalytic Bead
O_2	0-25%	0.1%	Electrochemical
CO	0-1000ppm	1ppm	Electrochemical
H_2S	0-100ppm	1ppm	Electrochemical

PS200 Series
Simple User Maintenance

Sensor grill
(with captive screw)
(Part No. 64240)

High impact rubberised polycarbonate case
(Part No. 64244)

Hydrophobic filter
(Part No. 64254)

Sample quick connect
(Part No. 64241)

LEL sensor
(Part No. 64825)

Display
(Part No. 64327)

Flexi PCB
(Part No. 64290)

Sample inlet filter
(Part No. 64084)

O₂ sensor
(Part No. 64066)

Dual Toxic (CO/H₂S) sensor (Part No. 64067)

Pump Assembly (optional) (Part No. 64255)

Sounder
(Part No. 64322)

Robust belt clip
(Part No. 64242)

ORDERING INFORMATION AND ACCESSORIES

Accessories supplied with the instrument

64260	USB Charging / Comms Clip
64247	Universal Power Plug *(Mains – USB)*
64190	User CD-ROM *(Incl. Handbook)*
64172	Quick Operating Instructions
64136	3m. Tubing with Quick Connector

RECOMMENDED SPARE PARTS

64254	Hydrophobic Filter
64084	Sample Inlet Filter
64825C	LEL sensor
64066	O₂ sensor
64067	Dual Toxic CO/H₂S Sensor
64176	CO sensor
64128	H₂S sensor
64255	Pump Assembly

ADDITIONAL ACCESSORIES

64303	Rubber Boot *(Colour options:- black, grey, yellow, red, orange, blue, green)*
66123	Hand Aspirator
66478	Hand Aspirator *(c/w 10 ft. tubing)*
66112	Sample Line Extender
66485	In-Line Hydrophobic Filter Assy
66545	Ball Float
64100	Rugged Carry Case

Charging Accessories

64248	In-Vehicle Charging Adaptor *(12V/24V – USB)*
64138	5 Way Multi-Charger

Automatic Bump & Calibration

64052	Auto Bump & Calibration Station *(6mm. fittings & incl. PSU and USB stick with Standalone software)*
64052Q	Auto Bump & Calibration Station *(1/4 in. fittings & incl. PSU and USB stick with Standalone software)*
99553	flexiCal Plus software for PC
99118	Demand Flow Regulator
64265	Tubing with 6mm Push Fit Connector

Manual Bump & Field Calibration Kit

64051	Manual Bump Kit (no power required) *(c/w Combi Test Gas 99146, Direct Flow Regulator, tubing & sample line connector)*

Gas Kits for Auto Bump & Calibration Station

99146	Combi Test Gas Cylinder *(2.5% CH₄, 500ppm CO, 50ppm H₂S, 18% O₂, balance N₂)*
64060	Test Gas Kit (6mm fittings) *(Combi Test Gas 99146, Demand Flow Regulator 99118 c/w 6mm tubing)*
64060Q	Test Gas Kit *(1/4 in Fittings)* *(Combi Test Gas 99146, Demand Flow Regulator part no. 99118 c/w 1/4" tubing)*

Software

64197	Data downloading CD-ROM *(c/w Handbook)*
64184	Auto Bump & Calibration Station USB Flash Drive *(c/w Handbook)*

Documentation

64193	Configuration & Field Calibration Handbook *(CD-ROM)*

GMI
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