



Gas & Flame
Detection

Portable Gas Detection

September 2018 - EUR €



Learn more at gasdetection.3m.com

PS200 Specifications



The PS200 Series detects all possible combinations of LEL, O₂, CO, H₂S, including single gas detection. In addition to displaying all gas readings simultaneously, the user can also initiate a manual bump test anytime.

TECHNICAL SPECIFICATION

Size:	121 × 59 × 32mm (4.8" × 2.3" × 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



The following items are shipped as standard with each monitor

- Charging/coms clip
- Universal charging adapter
- Calibration certificate
- User manual (CD-ROM)
- Quick Operating instructions
- 3m tubing c/w quick connect (pumped only)

PS200 Pricing for monitors with pump

PART NO	Description	Standard Sensor (€)	Enhanced Sensor (€)	Low Power Sensor (€)
Pumped:				
4-Gas:				
64141	4-Gas LEL/O ₂ /H ₂ S/CO Pumped	700.00	700.00	805.00
3-Gas:				
64131	3-Gas LEL/O ₂ /H ₂ S Pumped	554.00	554.00	637.00
64132	3-Gas LEL/O ₂ /CO Pumped	554.00	554.00	637.00
64133	3-Gas LEL/H ₂ S/CO Pumped	602.00	602.00	692.00
64134	3-Gas O ₂ /H ₂ S/CO Pumped	576.00	576.00	NA
2-Gas:				
64121	2-Gas LEL/O ₂ Pumped	408.00	408.00	469.00
64122	2-Gas LEL/H ₂ S Pumped	453.00	453.00	521.00
64123	2-Gas LEL/CO Pumped	453.00	453.00	521.00
64124	2-Gas O ₂ /H ₂ S Pumped	431.00	431.00	NA
64125	2-Gas O ₂ /CO Pumped	431.00	431.00	NA
64126	2-Gas H ₂ S/CO Pumped	485.00	485.00	NA
1-Gas:				
64111	1-Gas LEL Pumped	351.00	351.00	404.00
64112	1-Gas O ₂ Pumped	325.00	325.00	NA
64113	1-Gas H ₂ S Pumped	377.00	377.00	NA
64114	1-Gas CO Pumped	377.00	377.00	NA

- NOTE 1 All PS200 Monitors are shipped with the following: Charging/coms clip, universal charging adaptor, calibration certificate, user manual, quick operating instructions & 3m tubing c/w quick connect for pumped instruments only
- NOTE 2 To purchase a PS200 monitor with an enhanced filtered LEL sensor or the Low Powered LEL sensor a suffix of A or A3 must be used.
Please refer to below example.

Part Number	Description	Standard Filtered LEL	Enhanced Filtered LEL	Low Power LEL
64141	4 Gas Pumped	64141	64141A	64141A3

PS200 Pricing for monitors without a pump

PART NO	Description 4 Gas	Standard Sensor (€)	Enhanced Sensor (€)	Low Power Sensor (€)
64041	4-Gas LEL/O ₂ /H ₂ S/CO Non-Pumped	640.00	640.00	735.00
3-Gas:				
64031	3-Gas LEL/O ₂ /H ₂ S Non-Pumped	492.00	492.00	567.00
64032	3-Gas LEL/O ₂ /CO Non-Pumped	492.00	492.00	567.00
64033	3-Gas LEL/H ₂ S/CO Non-Pumped	539.00	539.00	620.00
64034	3-Gas O ₂ /H ₂ S/CO Non-Pumped	516.00	516.00	NA
2-Gas:				
64021	2-Gas LEL/O ₂ Non-Pumped	345.00	345.00	397.00
64022	2-Gas LEL/H ₂ S/Non-Pumped	392.00	392.00	451.00
64023	2-Gas LEL/CO Non-Pumped	392.00	392.00	451.00
64024	2-Gas O ₂ /H ₂ S Non-Pumped	369.00	369.00	NA
64025	2-Gas O ₂ /CO Non-Pumped	369.00	369.00	NA
64026	2-Gas H ₂ S/CO Non-Pumped	423.00	423.00	NA
1-Gas:				
64011	1-Gas LEL Non-Pumped	280.00	280.00	322.00
64012	1-Gas O ₂ Non-Pumped	254.00	254.00	NA
64013	1-Gas H ₂ S Non-Pumped	308.00	308.00	NA
64014	1-Gas CO Non-Pumped	308.00	308.00	NA

- NOTE 1 All PS200 Monitors are shipped with the following: Charging/coms clip, universal charging adaptor, calibration certificate, user manual, quick operating instructions & 3m tubing c/w quick connect for pumped instruments only
- NOTE 2 To purchase a PS200 monitor with an enhanced filtered LEL sensor or the Low Powered LEL sensor a suffix of A or A3 must be used. Please refer to below example.

Part Number	Description	Standard Filtered LEL	Enhanced Filtered LEL	Low Power LEL
64041	4 Gas Non Pumped	64041	64041A	64041A3

PS200 5 Year O2 Pricing

PART NO	Description	Standard Sensor (€)	Enhanced Sensor (€)	Low Power Sensor (€)
Pumped:				
4-Gas:				
6414105	4-Gas LEL/O ₂ /H ₂ S/CO Pumped	800.00	800.00	905.00
3-Gas:				
6413105	3-Gas LEL/O ₂ /H ₂ S Pumped	654.00	654.00	737.00
6413205	3-Gas LEL/O ₂ /CO Pumped	654.00	654.00	737.00
6413305	3-Gas LEL/H ₂ S/CO Pumped	580.00	580.00	652.00
Non-Pumped:				
4-Gas:				
6404105	4-Gas LEL/O ₂ /H ₂ S/CO Non-Pumped	740.00	740.00	835.00
3-Gas:				
6403105	3-Gas LEL/O ₂ /H ₂ S Non-Pumped	592.00	592.00	667.00
6403205	3-Gas LEL/O ₂ /CO Non-Pumped	592.00	592.00	667.00
6403305	3-Gas LEL/H ₂ S/CO Non-Pumped	639.00	639.00	720.00

- NOTE 1 All PS200 Monitors are shipped with the following: Charging/coms clip, universal charging adaptor, calibration certificate, user manual, quick operating instructions & 3m tubing c/w quick connect for pumped instruments only
- NOTE 2 To purchase a PS200 monitor with an enhanced **filtered** LEL sensor or the Low Powered LEL sensor a **suffix** of A or A3 must be used.
- Please refer to below example.

Part Number	Description	Standard Filtered LEL	Enhanced Filtered LEL	Low Power LEL
6414105	4 Gas Pumped	6414105	6414105A	6414105A3

PS200 Marine Pricing for Monitors

PART NO	Description	Standard Sensor (£)	Enhanced Sensor (£)
Pumped:			
4-Gas:			
M64141	4-Gas LEL/O ₂ /H ₂ S/CO Pumped	700.00	700.00
3-Gas:			
M64131	3-Gas LEL/O ₂ /H ₂ S Pumped	554.00	554.00
M64132	3-Gas LEL/O ₂ /CO Pumped	554.00	554.00
Non-Pumped:			
4-Gas:			
M64041	4-Gas LEL/O ₂ /H ₂ S/CO Non-Pumped	640.00	640.00
3-Gas:			
M64031	3-Gas LEL/O ₂ /H ₂ S Non-Pumped	492.00	492.00
M64032	3-Gas LEL/O ₂ /CO Non-Pumped	492.00	492.00

- NOTE 1 All PS200 Monitors are shipped with the following: Charging/coms clip, universal charging adaptor, calibration certificate, user manual, quick operating instructions & 3m tubing c/w quick connect for pumped instruments only
- NOTE 2 To purchase a PS200 monitor with an enhanced **filtered** LEL sensor a **suffix** of A must be used.

Please refer to below example.

Part Number	Description	Standard Filtered LEL	Enhanced Filtered LEL
M64141	4 Gas Pumped	M64141	M64141A

PS200 Filter Specifications

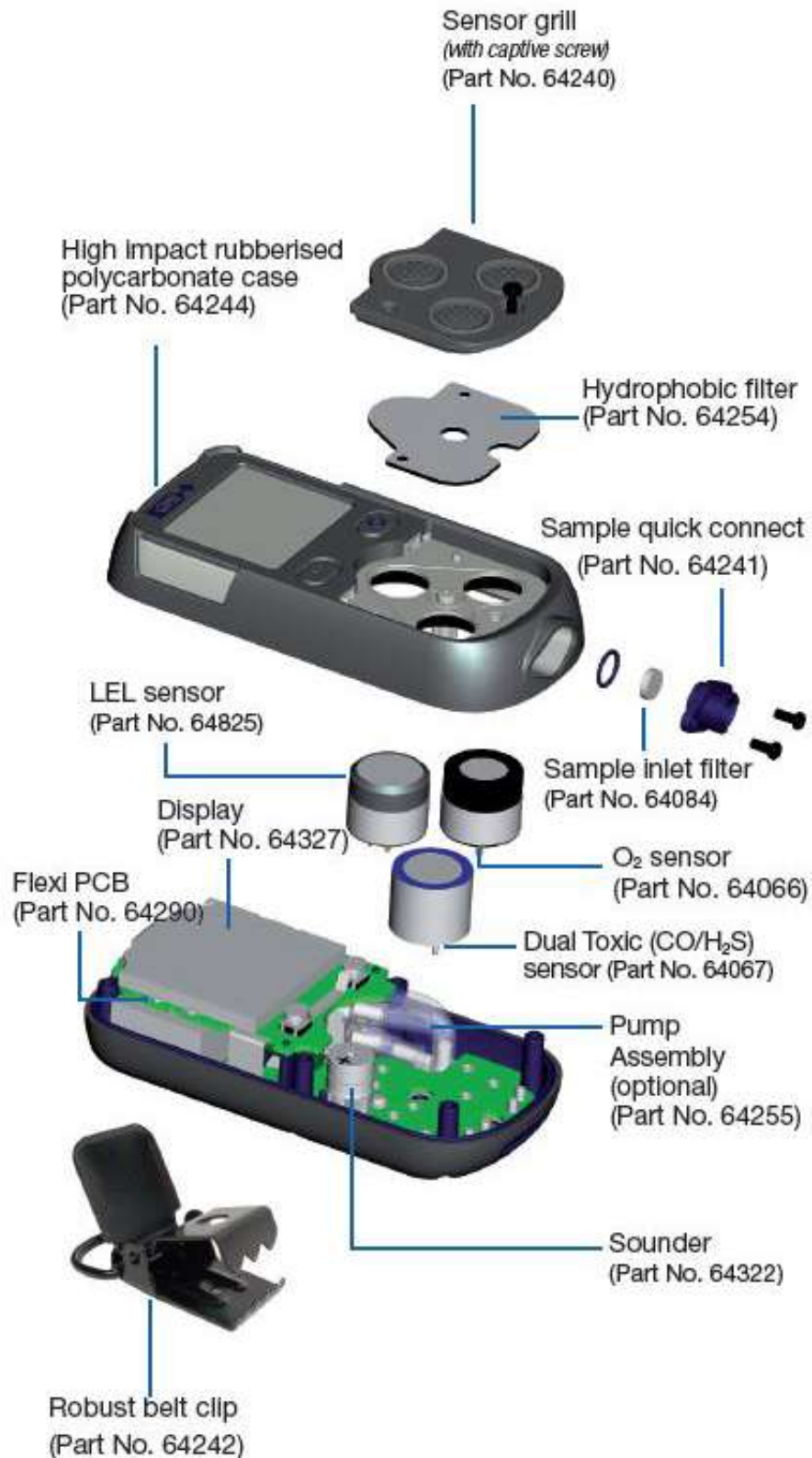
Applications	Standard Filter	Enhanced Filter	Low Power
	Detects most Combustible Gases	Enhanced resistance to H ₂ S and Silicon Poisoning	Improved Battery Life
Water Industry Clean Water	✓	✓	✓
Water Industry Waste Water	✓	✓	✓
BioDigester High H ₂ S	✓	✓	✗
Bio Digester PPE	✓	✓	✓
TELECOMS	✓	✓	✓
Gas Welding/Brazing (acetylene)	✓	✓	✓
Gas Welding/Brazing (Propane)	✓	✓	✓
Refining PPE	✓	✓	✓
Petrochem Chemical >C5 HC's PPE	✓	✓	✗
Petrochem (Aromatics)	✓	✗	✗
Petrochem Eco Fuels (alcohol) Tank farm	✓	✗	✗
Gas Transmission	✓	✓	✓
Gas Storage	✓	✓	✓
Gas Distribution	✓	✓	✓
Oil Exploration	✓	✓	✓
Oil Exploration High H ₂ S *	✓	✓	✗
Tank Cleaning **	✓	✓	✗
Solvent Recovery (Aliphatic)	✓	✗	✗
Solvent Recovery (Aromatic)	✓	✗	✗
Power Generation Electrical	✓	✓	✗
Steel Works Steel Works Blast Furnce	✓	✓	✗
Steel Works Steel Works soaking pits & Reheat	✓	✓	✗
Brewing	✓	✓	✓
Distilling	✓	✗	✗
Heat Treatment (carburising/nitriding)	✓	✓	✗
Certification Gas Groups ATEX	ATEX IIC	ATEX IIC	ATEX IIB
Certification Gas Group U/L	ABC & D	ABC & D	C&D

PS200 Sensors and Spare Parts

PART NO	Description	Pricing (€)
Sensors		
66725	LEL Sensor (Standard)	151.00*
66825	LEL Sensor (Enhanced)	150.00*
66750	LEL Sensor (Low Power)	156.00*
64066	O ₂ Sensor - 2yr	121.00*
64128	H ₂ S Sensor	249.00*
64176	CO Sensor	196.00*
64067	Dual Tox. H2S/CO Sensor	275.00*
8001055	O ₂ Sensor - 3 yr	121.00*
Spare Parts		
64254	Hydrophobic Filter (c/w Gasket)	7.75*
64240	Filter Cover (c/w Captive Screw)	5.49*
64243	Front Cover	39.39*
64244	Rear Cover	29.63*
64255	Pump Kit (Pump & Tubing)	116.00*
64256	Diffusion Kit	2.95*
64327	Liquid Crystal Display (LCD) Module	26.24*
Software		
64197	Datalogging software	157.00
Bump Test and Calibration Equipment		
64052Q	Auto Bump/Calibration Station (Includes 110v Power Supply)	930.00
67347	Power Supply Auto Bump Station	28.68
99553	Flexi Cal Plus (Required for ABC Station in PC mode)	594.00
Calibration Gas		
99146	Combi Test Gas Cylinder. 2.5% CH ₄ , 500 PPM CO, 50 PPM HS, 18% O ₂ & Balance N ₂	291.00

* Controlled Parts - To be replaced by qualified personnel only. Please contact your local 3M representative for specific ordering information.

PS200 Exploded Diagram

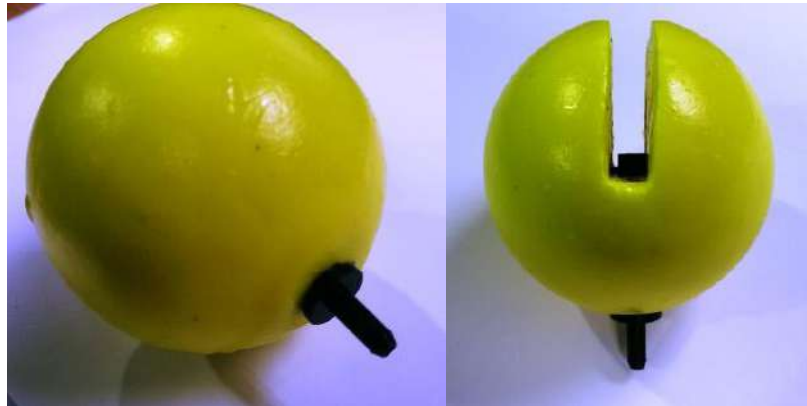


PS200 Accessories and Calibration Kit

PART NO	Description	Pricing (€)
Accessories		
64138	5-way Charger (Includes 110v Power Supply)	630.00
64303RD	Rubber Boot (Red)	37.99
64303BK	Rubber Boot (Black)	37.99
64303BU	Rubber Boot (Blue)	37.99
64303GN	Rubber Boot (Green)	37.99
64303GY	Rubber Boot (Grey)	37.99
64303OG	Rubber Boot (Orange)	37.99
64303YE	Rubber Boot (Yellow)	37.99
64260	Instrument Charging/comms clip	25.36
64247	Universal charging adaptor	19.72
64248	In vehicle charging adaptor	34.86
99118	Demand Flow Regulator	470.00
66545	Ball Float	40.20
64254	Hydrophobic Filter	7.75
64100	Rugged Carrying Case	119.00
64118	3m Tubing and Connector	8.85
64137	5m Tubing and Connector	19.61
64491	Vehicle Mount Charging Cradle	140.00
99117	Direct Flow 0.5 Lpm Regulator for Manual Calibration	182.00
64267	USB Cord for Charging & Data Transfer	4.74
64151	PS200 Probe Assembly	89.00
Kits		
64150	PS200 Confined Space Demonstration Kit – PS200, ABC and Relevant Accessories contained within a Large Travel Carry Case	2,275.00
64051	Manual Bump Kit. Includes - Combi Test Gas, Direct Flow Regulator, Tubing & Sample Line Connector	391.00
64060	Auto Bump & Calibration Kit. Includes - Combi Test Gas Gas & Demand Flow Regulator with Tubing	571.00

Note: The Ecosmart Cylinders offer any customer NO CHARGE return shipping when bottle is empty. These kits are drop-shipped from Gasco direct to GMI dealers

PS200 Calibration Kit and Ball Float



Examples of Ball Float



Example of PS200 Confined Space Demonstration Kit (#64150) –
note Gas and Regulator (64060) supplied separately

PS500 Specifications

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.

PS500 Technical Specification	
Size:	140 × 85 × 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 O ₂ , 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 / 98ft. (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 rubberized polycarbonate case
IP 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 CE0518 ATEX II 2 G EEx iad IIC T3 / T4
IECEX:	EEx iad IIC T3/T4
Warranty:	2 years
* Excludes NDIR sensor option.	

Features

Green/Red Visual Alarms

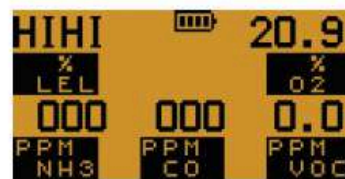


On/Off button

Audible Alarm

Sensor (x4)

Sample inlet nozzle



Display in alarm conditions



Configurable calibration options



VOC target gas selection

PS500 Product Nomenclature

Product Nomenclature Format

XXXXX-1-2-3-4

XXXXX Instrument Configuration

1 Gas Sensor

2 Gas Sensor

3 Gas Sensor

4 Gas Sensor

Part Number Example: 61368CFHN

Part Description: PS500 LD NiMH, Pump, Datalogging, H2S, SO2, NO2, NO

Part No	Description	Pricing (€)
PS500 Instrument Configuration		
61168	PS500 Drycell + Pump + Datalogging	561.00
61178	PS500 Drycell + Datalogging	366.00
61368	PS500 LD NiMH + Pump + Datalogging	661.00
61378	PS500 LD NiMH + Datalogging	461.00

Gas Sensors		
66825	A - LEL*	150.00
66066	B - O ₂	121.00
65128	C - H ₂ S	200.00
66285	C1 - H ₂ S (to be used if LEL calibration is Ethanol/Methanol)	200.00
65127	D - CO	200.00
66067	E - H ₂ S / CO (5 gas instrument only with this dual sensor fitted)	272.00
65377	F - SO ₂ (0-30ppm)	303.00
65371	G - CL ₂ ***	303.00
65378	H - NO ₂	303.00
65388	J - NH ₃ ***	461.00
65385	N - NO	303.00
66319	P - CO ₂ (Not UL Approved)	663.00
66346	R - Infra Red LEL (Not UL Approved)	693.00
66559	U - PH ₃ ***	857.00
66559	V1 - VOC (0-100ppm) Iso-Butylene***	857.00
66N579	V2 - VOC (0-1000ppm) Iso-Butylene***	857.00
65377	X - SO ₂ (0-100ppm) Default HiHi alarm level 25ppm.	303.00
66559	Z - BNZ (0-20ppm) ***	857.00

* Chemical filter - Methane, Propane, Butane, Pentane, Hydrogen cal only.

** Only methane and hydrogen are detected

*** Pump required.

PS500 Accessories and Calibration Equipment

Part No	Description	Pricing (€)
PS500 Accessories		
66140	Charger (Universal Plug)	31.93
66200	5-way Standard Charger with Universal Plug	240.00
66207	10-way Standard Charger with Universal Plug	277.00
66206	12v / 24v Vehicle Charger Lead	31.93
66930	Reactive Gas Tubing Kit 3m	84.00
66349	Carrying Case	98.00
66545	Ball Float	40.20
66136	3m Tygon Tubing c/w Sample Connector	33.12
66167	Instrument Key (T10 Torx Screw Driver)	14.43
66485	Hydrophobic Filter	21.40
Bump Test and Calibration Equipment		
61502	PS500 Auto Bump/Calibration Station. 1 Gas & Air	874.00
61504	PS500 Auto Bump/Calibration Station. 3 Gas & Air	1,166.00
99553	Flexi Cal Plus (Required for ABC Station in PC mode)	594.00
Software		
61208	Datalogging Package	350.00
Battery Packs		
66702	Drycell Battery Pack	62.00
66701	Long Duration NiMH Battery Pack	159.00
66703	Fast Charge Battery Pack	223.00
Spare Parts		
66577	PID Cleaning Kit	143.00*
66578	PID Refurbishment Kit	321.00*
66082	LCD Module	65.00*
66190	Pump Kit (Pump & Tubing)	219.00*
Calibration Gas		
99146	Combi Test Gas Cylinder. 2.5% CH ₄ , 500PPM CO, 50 PPM H ₂ S, 18% O ₂ & Balance N ₂	291.00

* Controlled Parts - To be replaced by qualified personnel only. Please contact your local 3M representative for specific ordering information.

Automatic Bump Testing and Calibration

To complement the Personal Surveyor product line, Tyco Gas & Flame has developed a compact, robust and easy to use Auto Bump & Calibration Station that can provide full bump and calibration options with 3 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 certifications

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

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



PS200 ABC

Auto Bump & Calibration Station Technical Specification	
Size:	200 × 140 × 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
Operation Temperature:	-10°C to 40°C (14°F to 104°F)
Gas Ports:	3 (Air, Combi Gas & Exhaust) Contact GMI for other Combinations



PS500 ABC

Auto Bump & Calibration Station Technical Specification	
Size:	200 × 140 × 135mm (7.9" x 5.5" x 5.3")
Weight:	Single 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
Operation Temperature:	-10°C to 40°C (14°F to 104°F)
Gas Ports:	Single Gas - 3 (Air, Combi Gas & Exhaust) Multi Gas - 5 (Air, Gas x 3 & exhaust)

Protégé ZM

Zero Maintenance Single Gas Monitor



Customizable Setting

- Use hibernate mode on the CO and H₂S models for up to one year additional operating life
- Custom or factory-programmed alarm set points
- User configurable bump and calibration reminders
- Multiple LCD display options including real-time gas readings, monitor life remaining or both
- Three point alarms (audible, visual and tactile)
- Data-logging capabilities
- Name or assign monitors using a six-character user ID

Accessories



Required Computer and Operating System

- PCs running the Microsoft Windows operating system and Microsoft .NET framework, using Microsoft Windows® XP, Microsoft Windows® Vista and Microsoft Windows® 7 programs



STATIONARY
TEST STATION



PROTÉGÉ ZM CONFIGURATION
SOFTWARE



IR CONNECT
MODULE

Protégé ZM

Zero Maintenance Single Gas Monitor

Specifications and Ordering Information

Part Number	Product	Pricing (€)
PROTÉGÉ ZM Gas Monitors		
2025938	Protégé ZM Single Gas CO Monitor (High Vis Red)	140.00
2025937	Protégé ZM Single Gas H ₂ S Monitor (High Vis Red)	140.00
2025939	Protégé ZM Single Gas O ₂ Monitor (High Vis Red)	140.00
PROTÉGÉ ZM Gas Test Stations		
2025941	Portable Test Station	1,650.00
2025942	Protégé ZM Stationary Test Station	1,550.00
PROTÉGÉ ZM Accessories		
2025940	Protégé IR Connect with USB Cable	80.00
2025958	Protégé IR Connect Spare USB Cable	5.00
2025957	Protégé ZM Alligator Clip	5.00
2025936	Protégé ZM Calibration Cup	2.00
2019127	H ₂ S Single Gas Cylinder	155.00
2026296	CO Single Gas Cylinder	125.00
2026297	O ₂ Single Gas Cylinder	150.00
2019125	Regulator 2AL/AL/6D 0.5LPM	125.00
2024511	10-ft. Clear Tubing	14.00

Monitor Specifications	
Physical Characteristics	
Size	3.7" H x 2.2" W x 1.3" D
Weight	2.7 oz
Operation	One-hand operation
Carrying Attachments	Stainless Steel Alligator Clip
Case Material	Impact-absorbant Rubber Overmold
Environmental Protection	IP 66/67 (Third-party Certified)
User Interface	
Display Info	Time Remaining (Default) or Gas Reading (Optional) or Both (Optional), Gas Type, Functional Test Validation, Bump Test Due Indicator, Battery Level
Monitoring	
Sensor Types	CO, H ₂ S, O ₂
Hibernation Mode Supported	CO, H ₂ S
Sensor Ranges	CO: 1-300 PPM, H ₂ S: 1-100 PPM, O ₂ : 1.0-30.0% Volume
Power	
Power Source	Lithium Ion battery
Battery Life Indication	Yes
Battery Life	2 Years, Hibernate Mode extends life up to one additional year on CO and H ₂ S models
Alarms	
Visual Alarm	Yes - Red LED
Audible Alarm	Yes - 95db
Vibrating Alarm	Yes
Alarm Set Points	Pre-programmed default settings; Customized factory settings available; Configure use settings via software and the IR Connect or Test Station accessories
Data Storage	
Data Logging	Logs last 25 events
Data Retention	Yes - backup to PC
Data Transmission	Infrared
Certifications	
EMC Compliance	CE Marked; EMC\EMI\RFI Compliant
Explosive Atmospheres	ETL/cETL certification to UL 913 7th, CSA C22.2 No. 157 for use in Class I Division 1 & 2, Groups A, B, C and D hazardous areas; IECEx Ex ia IIC T4 Ga; ATEX Directive (94/9/EC) ATEX II 1 G Ex ia IIC T4 Ga
Approvals	CE Mark includes both ATEX & EMC testing
Approved Temperature Ranges	-30°C to 50°C (CO) -40°C to 50°C (H ₂ S) -50°C to 50°C (O ₂)
Enviroment	
Humidity	5 - 95% RH non-condensing

Approvals:

UL: Class 1, Div 1 Groups A, B, C, D T4, CSA: Class 1, Div 1 Groups A, B, C, D T4,
ATEX: Ex d ia IIC T4, IECEx: (pending), INMETRO: BR-Ex d ia IIC T4, -20°C ≤ Tamb ≤ +50°C
IP 67 Rated: 3rd-party tested for compliance, EMC: EMC Directive (2004/108/EC) CE Mark

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Protégé SG

Reusable Single Gas Monitor



Part Number	Description	Pricing (€)
Protégé SG Reusable Single Gas Monitor Pricing		
RSG-RL20N-C	Protégé Single Gas - Reusable, Red, Hydrogen Sulfide Sensor	285.00
RSG-GL20N-C	Protégé Single Gas - Reusable, Grey, Hydrogen Sulfide Sensor	285.00
RSG-RL20N-E1	Protégé Single Gas - Reusable, Red, Hydrogen Sulfide Sensor, Low Range	334.00
RSG-GL20N-E1	Protégé Single Gas - Reusable, Grey, Hydrogen Sulfide Sensor, Low Range	334.00
RSG-RL20N-M	Protégé Single Gas - Reusable, Red, Carbon Monoxide Sensor, Hydrogen Resistant	334.00
RSG-GL20N-M	Protégé Single Gas - Reusable, Grey, Carbon Monoxide Sensor, Hydrogen Resistant	334.00
RSG-RL20N-B	Protégé Single Gas - Reusable, Red, Oxygen Sensor	285.00
RSG-GL20N-B	Protégé Single Gas - Reusable, Grey, Oxygen Sensor	285.00
RSG-RL20N-K	Protégé Single Gas - Reusable, Red, Hydrogen Cyanide Sensor	381.00
RSG-GL20N-K	Protégé Single Gas - Reusable, Grey	381.00
RSG-RL20N-L	Protégé Single Gas - Reusable, Red, Ozone Sensor	476.00
RSG-GL20N-L	Protégé Single Gas - Reusable, Grey, Ozone Sensor	476.00
RSG-RL20N-N	Protégé Single Gas - Reusable, Red, Nitric Oxide Sensor	381.00
RSG-GL20N-N	Protégé Single Gas - Reusable, Grey, Nitric Oxide Sensor	381.00
RSG-RL20N-H	Protégé Single Gas - Reusable, Red, Nitrogen Dioxide Sensor	381.00
RSG-GL20N-H	Protégé Single Gas - Reusable, Grey, Nitrogen Dioxide Sensor	381.00
RSG-RL20N-U	Protégé Single Gas - Reusable, Red, Phosphine Sensor	476.00
RSG-GL20N-U	Protégé Single Gas - Reusable, Grey, Phosphine Sensor	476.00
RSG-RL20N-F	Protégé Single Gas - Reusable, Red, Sulfur Dioxide Sensor	381.00
RSG-GL20N-F	Protégé Single Gas - Reusable, Grey, Sulfur Dioxide Sensor	381.00
RSG-RL20N-J	Protégé Single Gas - Reusable, Red, Ammonia Sensor	381.00
RSG-GL20N-J	Protégé Single Gas - Reusable, Grey, Ammonia Sensor	381.00
RSG-RL20N-G	Protégé Single Gas - Reusable, Red, Chloride Sensor	381.00
RSG-GL20N-G	Protégé Single Gas - Reusable, Grey, Chloride Sensor	381.00
RSG-RL20N-I	Protégé Single Gas - Reusable, Red, Chlorine Dioxide Sensor	476.00
RSG-GL20N-I	Protégé Single Gas - Reusable, Grey, Chlorine Dioxide Sensor	476.00
RSG-RL20N-D	Protégé Single Gas - Reusable, Red, Carbon Monoxide Sensor	285.00
RSG-GL20N-D	Protégé Single Gas - Reusable, Grey, Carbon Monoxide Sensor	285.00

Part Number	Description	Pricing (€)
Protégé SG Reusable Single Gas Monitor Spare Parts		
8005276	Calibration Cup	23.85
8005287	Internal filter assembly PSG	9.54
8005307	Alligator Clip	9.54

Protégé SG

Reusable Single Gas Monitor

Part Number	Description	Pricing (€)
Protégé SG Reusable Single Gas Monitor Accessories		
2025940	Protégé IR Connect with USB Cable	80.00
2025958	Protégé IR Connect Spare USB Cable	5.00
8005942	Protégé MasterDock II Auto Bump & Calibration Station with SG cradle	1908.00
Protégé SG Reusable Single Gas Monitor Calibration Gas & Equipment		
077-0018	Standard Fix Flow Regulator. 2AL/8AL/6D .5LPM	147.00
077-1430	Stainless Steel Fix Flow Regulator	267.00
077-0342	Demand Flow Regulator	401.00
077-0025	H ₂ S - 58 Liters, 25PPM H ₂ S/Air Balance	214.00
077-0026	CO - Carbon Monoxide 50 PPM/ Air Balance	205.00
077-0238	O ₂ - 18.5% O ₂ /Nitrogen Balance	171.00
077-0278	HCN - 34 Liters, 10 ppm HCN/N ₂ Balance	374.00
077-0203	NO - 58 Liters, 25 ppm NO/N ₂ Balance	448.00
077-0204	NO ₂ - 58 Liters, 25 ppm NO ₂ /N ₂ Balance	448.00
077-1239	PH ₃ - 34 Liters, 1 ppm PH ₃ /N ₂ Balance	242.00
077-0050	SO ₂ - 58 Liters, 9 PPM SO ₂ /Air Balance	214.00
077-0125	NH ₃ - 58 Liters, 50 ppm NH ₃ /Air Balance	448.00
077-0151	Cl ₂ - 58 Liters, 2 ppm Cl ₂ /N ₂ Balance	448.00
077-0358	LEL - 1.62% methane/air Balance (32%LEL)	136.00
077-0151	C10 ₂ - Use Cl ₂ as surrogate gas	448.00
077-0151	O ₃ - Use Cl ₂ as surrogate gas	448.00
Sensor Module includes sensor + smart IC board.		
Protégé SG Reusable Single Gas Monitor Replacement Sensors		
8005318	H ₂ S Sensor Module 0 to 500 ppm	149.00
8005320	H ₂ S High Resolution Sensor Module 0 to 100 ppm	130.00
8005322	CO Sensor Module 0 to 1000ppm	149.00
8005321	CO H ₂ Resistant Sensor Module 0 to 2000ppm	130.00
8005324	O ₂ Sensor Module 0 to 30%	123.00
8005330	HCN Sensor Module 0 to 100 ppm	286.00
8005327	O ₃ Sensor Module 0 to 3 ppm	286.00
8005331	NO Sensor Module 0 to 350 ppm	334.00
8005332	NO ₂ Sensor Module 0 to 100 ppm	286.00
8005326	PH ₃ Sensor Module 0 to 20 ppm	286.00
8005325	SO ₂ Sensor Module 0 to 150 ppm	286.00
8005333	NH ₃ Sensor Module 0 to 300 ppm	286.00
8005328	Cl ₂ Sensor Module 0 to 50 ppm	286.00
8005329	ClO ₂ Sensor Module 0 to 5 ppm	286.00
Sensor Module includes sensor + smart IC board.		



Gas & Flame Detection



AMERICAS - Texas (USA)

4055 Technology Forest Blvd.
The Woodlands, TX 77381
Tel.: +1-713-559-9200
Fax: +1-713-893-6729

EMEA - GMI

3M Personal Safety Division
Block 2 | Inchinnan Business Park
Renfrew PA4 9RG | Scotland | UK
Tel: +44 (0) 141 302 8228

ASIA PACIFIC

290 Guiqiao Road
Pudong, Shanghai 201206
People's Republic of China
Tel.: +86-21-3127-6373
Fax.: +86-21-3127-6365

<http://gasdetection.3m.com>

