



PDM+ Sustainable Single Gas Detector

For O₂, CO, H₂S, SO₂, NH₃, H₂O₂ or NO₂
Type: SP-SGTP Series

PDM+ is a single sustainable gas monitor designed to detect oxygen deficiency or the presence of toxic gas in the ambient environment. The PDM+ is sustainable, hence its battery and sensor can be replaced. When turned on, PDM+ continuously monitors ambient air for the presence of a specific gas and alerts the user to potentially unsafe exposure with LED, vibrating, and audible alarms. After use, the instrument can be turned off, making the battery last up to three years.

The PDM+ is easy to wear, the backside of the device has a strong metal clip to secure the monitor to a shirt, belt or helmet. The PDM devices are compatible with WatchGas Docking Station and WatchGas IR Link. Both devices provide the function to download the data of the PDM+ single-gas monitor. The 30 most recent events will be stored on an internal event logger.

PDM+ can be calibrated or bump tested manually. The PDM Family Multi EDocking Station will automatically calibrate four devices simultaneously, which reduces downtime and gas consumption.



Key Features

- Low total cost of ownership
- IP-67
- Atex Zone 0
- Stores up to 30 most recent events
- Lightweight and compact
- Fast bump tests with Docking Station
- Has TWA and STEL

Application Examples

- (Petro) chemical industry
- Installation companies

DETECTOR SPECIFICATIONS

Size	54mm(W) x 91mm(H) x 32mm(D)
Weight	93g (Toxic), 104g (O ₂) (Battery, clip included)
Sensor technology	Electrochemical Cell
Temperature	-40°C ~ +50°C (for Toxic) / -35°C ~ +50°C (for O ₂)
Humidity	5% ~ 95% RH (Non-condensing)
Alarm type	High Alarm, Low Alarm, TWA Alarm, STEL Alarm, Over range Alarm, Battery low alarm, Cal due
Alarm signal	Acoustic: 95dB @ 30cm Visual: Red flashing LED's Vibration: Vibration
Display	LCD Display
Calibration	2-point calibration, zero and span
Event log	30 Most recent events
Battery	DC 3.6V, 1.2Ah Lithium battery changable
Measurement	Diffusion
Housing	Polycarbonate and rubber
IP-Rating	IP67
Safety certifications	ATEX: II 1g Ex ia IIC T4 Ga INMETRO: Ex ia IIC T4 Ga IECEX: Ex ia IIC T4 Ga
Warranty	24 Months

SENSOR SPECIFICATIONS

Model	Detectable Gas Ranges	Resolution	Article Numbers	Availability
PDM+ O ₂	0-30%vol	0.1%vol	7192002	Available
PDM+ CO	0-500ppm	1ppm	7192001	Available
PDM+ H ₂ S	0-100ppm	0.1ppm	7192000	Available
PDM+ H ₂	0-1000 ppm	1 ppm	7192006	Coming soon
PDM+ SO ₂	0-20ppm	0.1ppm	7192005	Coming soon
PDM+ NH ₃	0-100ppm	1ppm	7192003	Coming soon
PDM+ H ₂ O ₂ NON-ATEX	0-99 ppm	0.1 ppm	7192007	Available
PDM+ NO ₂	0-20 ppm	0.1 ppm	7192004	Coming soon

PDM+ CO Available in 0-2000 ppm range with a resolution of 1 ppm

ORDER INFORMATION FOR ACCESORIES

Model	Article Numbers	Availability
WatchGas PDM IR Link	7189170	Available
WatchGas PDM Family Mono Dock	7189172	Available
WatchGas PDM Family Multi Dock	7189179	Available
Calibration cap for WatchGas PDM	7177200	Available

NOTES



PDM Family Mono Docking Station



Sampling Pump



Calibration Gases

*Check also our PDM
range on the WatchGas
website!*



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