

PDM DUO

PORTABLE DUAL GAS DETECTOR



The PDM DUO is a state-of-the-art portable gas detector designed to ensure safety in hazardous environments. Using the advanced diffusion method, it accurately monitors and alerts you to dangerous gas concentrations.

DUAL-GAS DETECTION

Simultaneously monitors and displays the concentration of two gases, including oxygen, explosive, or toxic gases, ensuring comprehensive safety coverage.

WIRELESS AND IR CONNECTIVITY

Supports wireless setting modifications and data download via Wireless Communication and WatchGas IR-LINK.

REAL-TIME MONITORING

Continuously displays real-time gas concentration levels on the LCD screen, allowing for immediate awareness of hazardous environments.

FEATURES AND BENEFITS



WATER/DUST PROOF (IP67)

Built with an excellent water and dust proof structure, rated IP67, making it suitable for various harsh environments.



COMPACT AND LIGHTWEIGHT

Compact design ensures easy portability, making it ideal for use in various work environments.



HIGH-PERFORMANCE ALARMS

Equipped with visible, audible, and vibrating alarms for immediate notification of hazardous situations.



EVENT LOGGING

Automatically logs up to 30 alarm events, allowing for easy tracking and record-keeping.



EASY CONFIGURATION

Easily configure and manage data using the IR link, streamlining the process for efficient operation.



USER-FRIENDLY OPERATION

Designed for ease of use with simple controls for all personnel.

TECHNICAL SPECIFICATIONS

Model	PDM DUO	
Sensor Type	Electrochemical, NDIR	
Measuring Type	Diffusion	
Case Material	Rubber type polycarbonate	
Dimensions	56(W) x 89(H) x 21(D) mm / 2.2(W) x 3.5(H) x 0.83(D) inch	
Weight	200g / 7.05oz	
Operating Temperature	-20°C to +50°C / -4°F to +122°F	
Operating Humidity	15% to 90% RH (Non-condensing)	
Operating Life	2 years on battery under normal use	
Event Log	Most recent 30 alarms	
IP	IP 67	
Alarm	Visual (LCD and flashing LEDs), Audible(Buzzer), Vibration	
Display	Liquid Crystal Display (LCD)	
Key	One button	
Battery	Replaceable Primary cell 3.6V Thionyl chloride(Li/SOCl ₂) battery manufactured in Vitzrocell	
Battery Life	PDM DUO-1 to 2: Approximately 0.5 years (8 hours of daily use, 2min alarm/day, wireless off) PDM DUO-3 to 13: Approximately 2 years (8 hours of daily use, 2min alarm/day, wireless off) * Battery life may vary depending on usage conditions and environment.	
Pressure	80~120KPa	
Accessories	Calibration Cap (available as an option)	
Attachment Method	Equipped with a clip for attachment to clothing, belts, or helmets.	
Warranty	2 years from the date of purchase	
Certification	IECEX	IECEX KSCP 24.0025X
	ATEX	KSCP 24ATEX0016X
	Standards(IECEX)	IEC 60079-0:2017, IEC 60079-11:2011, IEC 60079-28:2015
	Standards(ATEX)	EN IEC 60079-0:2018 EN 60079-11:2012 EN 60079-28:2015

SENSOR SPECIFICATIONS

Gas	Measuring Range	Low Alarm	High Alarm	STEL	TWA	Resolution
CO	0 ~ 500 ppm	25 ppm	25 ppm	100 ppm	20 ppm	1 ppm
CO2	0 ~ 5% Vol	0.4% Vol	0.8% Vol	8000 ppm	5000 ppm	0.01% Vol
CH4	0 ~ 100 %LEL	10 %LEL	10 %LEL	-	-	1% LEL
H2S	0 ~ 100 ppm	5 ppm	5 ppm	3.2 ppm	1.6 ppm	0.1 ppm
NO2	0 ~ 20 ppm	3 ppm	5 ppm	1pm	0.5 ppm	1 ppm
O2	0 ~ 30 %vol	19 %Vol	23 %Vol	-	-	0.1%vol
SO2	0 ~ 20 ppm	1 ppm	1 ppm	0.3 ppm	0.3 ppm	0.1 ppm

If your gas sensor is not listed, please contact us.

FOR MORE INFORMATION

www.watchgas.com
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Therefore, the specifications and features mentioned in this datasheet
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