

# QGM - MULTI-GAS MONITOR

Versatile and rugged detector for O<sub>2</sub>, LEL, H<sub>2</sub>S and CO



## KEY FEATURES

- IECEx and ATEX zone 0 approved
- Simple single button operation
- Durable, grippy housing
- Displays actual gas concentrations, TWA and STEL values
- Adjustable alarm levels using the WatchGas IR Link
- Data log: up to two months or more
- Docking station available for rapid bump test and calibration
- Optical, acoustic and vibrating alarms
- Battery up to two months (IR only)

## APPLICATION EXAMPLES

- Petrochemical plants and factories
- Tank storage parks
- Wastewater treatment facilities
- Mining industry
- Construction sites
- Governments/first responders
- Food and beverage industry



The WatchGas QGM is a versatile multi-gas monitor engineered to keep you and your staff safe while working in hazardous environments. The WatchGas QGM offers detection for up to four different gases.

The WatchGas QGM monitors Oxygen, Hydrogen Sulfide, Carbon Monoxide and combustible gasses (LEL). When the concentrations of these gases exceed the alarm thresholds, the WatchGas QGM alerts the user by vibrating, flashing LEDs and a 90dB acoustic alarm. An integrated data- and event logger registers measure values, as well as peak and average values, alarms, calibration dates and bump test information for up to two months. All logs can be downloaded to your PC through the WatchGas IR-link software.

### The QGM is available as a 1 to 4-gas monitor (LEL, O<sub>2</sub>, CO, H<sub>2</sub>S).

A catalytic LEL sensor comes as standard. Alternatively, you can specify your QGM with a NDIR LEL sensor. The NDIR LEL sensor consumes less energy, enhancing the battery life to up to two months on a single charge.

The IR LEL sensor has a few other advantages as well. It can measure combustible gases in the absence of Oxygen, making it more useful in environments where Oxygen levels may vary. Furthermore, it is less susceptible to poisoning by silicone and Sulfur. Furthermore, the QGM can measure Oxygen, Carbon Monoxide and Hydrogen Sulfide.

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## DETECTOR SPECIFICATIONS

<b>SIZE</b>	61(w) × 114(h) × 43(d)mm	
<b>WEIGHT</b>	240 g (including clip)	
<b>SENSOR TECHNOLOGY</b>	Catalytic or Infrared (LEL) Electrochemical (O <sub>2</sub> , CO, H <sub>2</sub> S)	
<b>TEMPERATURE</b>	-20 ~ +50° C	
<b>HUMIDITY</b>	5 ~ 95% RH (Non-condensing)	
<b>ALARM TYPE</b>	High alarm, Low alarm, STEL alarm, TWA alarm Over range alarm, Battery low alarm, Bump test and calibration due notification	
<b>ALARM SIGNAL</b>	Acoustic: (95 db @ 10 cm) Visual: LCD alarm display, LCD Backlight, Indicator LED Vibration alarm	
<b>DISPLAY</b>	LCD Display	
<b>CALIBRATION</b>	2-point calibration, zero and span	
<b>DATA LOG</b>	Data log 2 months or more Event log / calibration log / bump log: 30 events	
<b>BATTERY</b>	Type: Lithium-ion rechargeable battery Charging time: 4-6 hours	
<b>MEASUREMENT</b>	Diffusion	
<b>HOUSING</b>	Rugged durable housing with impact proof coating IP67	
<b>ACCURACY DEVIATION</b>	2-3%	
<b>RESPONSE TIME T90</b>	< 15sec/90% scale [LEL] / < 15sec/90% scale [O <sub>2</sub> ] < 30sec/90% scale [CO] / < 30sec/90% scale [H <sub>2</sub> S]	
<b>OPERATION TIME</b>	QGM-CAT: 25 hours continuous, QGM-IR: 60 days continuous	
<b>IP-RATING</b>	IP67	
<b>SAFETY CERTIFICATIONS</b>	<b>QGM-IR:</b> <b>IECEX /PESO:</b> Ex ia IIC T4 Ga <b>ATEX:</b> II 1G ia IIC T4 Ga <b>CSA/UL:</b> Class I, Division 1, Groups A,B,C, and/or D, T4 Ex ia IIC T4 Ga <b>INMETRO:</b> Ex ia IIC T4 Ga <b>CE:</b> Conformité Européenne	<b>QGM-CAT</b> <b>IECEX:</b> Ex da ia IIC T4 Ga <b>ATEX:</b> II 1G da ia IIC T4 Ga <b>CSA/UL:</b> Class I, Division 1, Groups A,B,C, and/or D, T4 Ex da ia IIC T4 Ga <b>INMETRO:</b> Ex da ia IIC T4 Ga <b>CE:</b> Conformité Européenne
<b>SENSOR LIFETIME (EXPECTED)</b>	O <sub>2</sub> , CO, H <sub>2</sub> S ≈ 2 years	LEL ≈ 5 years
<b>WARRANTY</b>	2 years (Electronics, sensors, battery)	

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## SENSOR SPECIFICATIONS

MODELS	DETECTABLE GAS RANGES	RESOLUTION	RESPONSE TIME T90	SENSOR LIFE-TIME (EXPECTED)
QGM O <sub>2</sub>	0-30% vol	0.1% vol	< 15 sec	< 2 years
QGM CO	0 - 500 ppm	1 ppm	< 30 sec	> 2 years
QGM H <sub>2</sub> S	0 - 100 ppm	0.1 ppm	< 30 sec	> 2 years
QGM LEL	0-100% LEL	1% LEL	< 15 sec	> 5 years

Note: LEL correction factors for gasses other than methane available in Tech/app note: 4

## ORDER INFORMATION

DESCRIPTION	ARTICLE NUMBER
QGM-CAT LEL 0-100 % LEL	7177138
QGM-CAT O <sub>2</sub> 0-30 % Vol / LEL 0-100 % LEL	7177137
QGM-CAT O <sub>2</sub> 0-30 % Vol / LEL 0-100 % LEL CO 0-500 ppm / H <sub>2</sub> S 0-100 ppm	7177135
QGM-IR LEL 0-100 % LEL	7177131
QGM-IR O <sub>2</sub> 0-30 % Vol / LEL 0-100 % LEL	7177132
QGM-IR O <sub>2</sub> 0-30 % Vol / LEL 0-100 % LEL CO 0-500 ppm / H <sub>2</sub> S 0-100 ppm	7177134

## ACCESSOIRES

DESCRIPTION	ARTICLE NUMBER
QGM Multi Docking Station	7189182
QGM Mono Docking Station	7189181
WatchGas QGM IR Link	7189170
WatchGas QGM Calibration Cap	7189183
WatchGas QGM Single Charger	7177212
WatchGas QGM 5-way charging cradle	7177213
WatchGas QGM charger for 5-way charging cradle	7177214
QGM leather protective cover	7189199

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## ACCESSORIES

The QGM Comes complete with the following items:

- Manual
- Charger, plug adapters and power cable
- Calibration cap
- Calibration certificate



**QGM Multi Docking Station**



**QGM Mono Docking Station**



**QGM 5-way horizontal stackable charger**



**QGM Mono Cradle**



**QGM Holster**



**WatchGas QGM IR Link**



**Calibration gases**

## FOR MORE INFORMATION

[www.watchgas.com](http://www.watchgas.com)  
[info@watchgas.com](mailto:info@watchgas.com)

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