

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 gases. 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 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 2-, 3- or 4-gas monitor.

A catalytic LEL sensor comes as standard. Alternatively, you can specify your QGM with a Non-Dispersive Infrared Sensor. The IR 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.



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
- Optical, acoustic and vibrating alarms
- Docking station available for rapid bump test and calibration

Application examples:

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

QGM-IR battery life up to two months of continuous operation

QGM-CAT battery life up to 24 hours of continuous operation

Detector specifications

| Model | QGM | | | |
|------------------------|---|-----------------------|--|------------------|
| | LEL | O ₂ | CO | H ₂ S |
| Measuring type | Diffusion | | | |
| Measuring method | Catalytic [QGM-CAT] Infrared [QGM-IR] | Electrochemical | | |
| Measuring range | 0-100 %LEL | 0-30 % ^{Vol} | 0-500 ppm | 0-100 ppm |
| Resolution | 1 % LEL | 0.1 % ^{Vol} | 1 ppm | 0.1 ppm |
| Sensor life time | > 2 year | 2 year | > 2 year | > 2 year |
| Response time | < 15sec/90%scale | < 15sec/90%scale | < 30sec/90%scale | < 30sec/90%scale |
| Operation | Single Button | | | |
| Alarm Display | Digital LCD display, LCD Backlight, indicator LEDs, flashing alarm | | | |
| Operation mode display | Visual: LCD alarm display, LCD Backlight, Indicator LED Acoustic: buzzer (90 db @ 10 cm) and vibrating alarm | | | |
| Event log | Data log 2 months or more Event log / calibration log / bump log: 30 event | | | |
| Mounting type | Stainless steel belt clip | | | |
| Programming | WatchGas IR Link with PC software | | | |
| Operation temperature | -20 to +50° C | | | |
| Operating Humidity | 10 to 95% RH, non-condensing | | | |
| Battery | Type: Lithium-ion rechargeable battery Charging time < 6h | | | |
| Operation time | QGM-CAT: 24 hours, QGM-IR: 2 months | | | |
| Housing | Rugged durable housing with impact proof coating IP67 | | | |
| Dimensions | 60 x 40 x 118 mm (WxDxH) | | | |
| Weight | < 240 g | | | |
| Approval | QGM-IR: Class I, Division 1, Groups A,B,C, and/or D, T4 Ex ia IIC T4 Ga Class 1, Zone 0, AEx ia IIC T4 Ga Sira 1BATEX2059X Inmetro: Ex ia IIC T4 Ga EAN-13: 8719992974877 (LEL/O ₂ / CO/H ₂ S) EAN-13: 8719992974894 (LEL/O ₂) EAN-13: 8719992974900 (LEL) | | QGM-CAT: Class I, Division 1, Groups A,B,C, and/or D, T4 Ex da ia IIC T4 Ga Class 1, Zone 0, AEx da ia T4 Ga Sira 1BATEX2059X Inmetro: Ex da ia IIC T4 Ga EAN-13: 8719992974917 (LEL/O ₂ /CO/H ₂ S) EAN-13: 8719992974724 (LEL/O ₂) EAN-13: 8719992974931 (LEL) | |
| Option | WatchGas IR Link, WatchGas Docking Station | | | |