



MULTI POINT

EXPLOSION-PROOF UNIVERSAL MULTI-GAS DETECTOR

WatchGas Multi Point is an explosion-proof multi-gas detector designed for flexible monitoring of flammable gases, toxic gases, and oxygen in hazardous environments.

Supporting up to three Smart Sensors, Bluetooth connectivity, and multiple installation configurations, it provides adaptable gas detection with simplified operation and maintenance.

Features and Benefits



Multi-Gas Detection

Supports up to three Smart Sensors using catalytic, electrochemical, and infrared technologies. Monitor flammable, toxic gases, and oxygen from one platform.



Flexible Installation

Supports diffusion, insert, sampling, and remote configurations, with remote sensors up to 100 m away. This allows one detector platform to suit a wide range of applications.



Smart Sensor Technology

Smart Sensors process and diagnose gas signals in real time while automatically recognizing sensor and calibration data. This simplifies maintenance and improves reliability.



Connected Maintenance

Bluetooth enables wireless monitoring, calibration, testing, and configuration. HART communication also provides flexible access for maintenance and system integration.



Clear Hazard Indication

A three-color light ring clearly shows normal, fault, and alarm conditions for quick visual status recognition. An optional 107 dB explosion-proof buzzer can provide additional audible warning.



Flexible System Integration

Supports 4–20 mA, RS-485 Modbus, HART, and relay outputs for connection to existing control and safety systems. This provides flexibility across different industrial installations.

Sensor Specifications

Measuring method	Catalytic cell	Electrochemical cell	Infrared
Measuring gas	Flammable gas	O ₂ , Toxic gas	Hydrocarbon gas, CO ₂ , CO
Measuring range	0 ~ 100% LEL ***	0 ~ 25% VOL (O ₂) 0 ~ 50ppm (H ₂ S) 0 ~ 200ppm (CO) 0 ~ 100ppm (NH ₃) ***	0 ~ 100% LEL 0 ~ 5% VOL (CO ₂) 0 ~ 2% VOL (CO) 0 ~ 4000ppm (N ₂ O) ***
Response time (T ₉₀)	< 15 sec	< 15 sec (O ₂), < 45 sec (Tx)	< 6 sec
Sensor Housing Material	Stainless steel 316	Stainless steel 316	Stainless steel 316
Dimensions / Weight	65(W) x 65(H) x 63(D) mm / ≤ 0.7kg	65(W) x 65(H) x 87(D) mm / ≤ 1.0kg	69(W) x 69(H) x 122(D) mm / ≤ 1.0kg

*** This table highlights only a selection of available gases. Contact your WatchGas representative for information on our complete portfolio of detectable gases, measurement ranges, and sensor configurations.

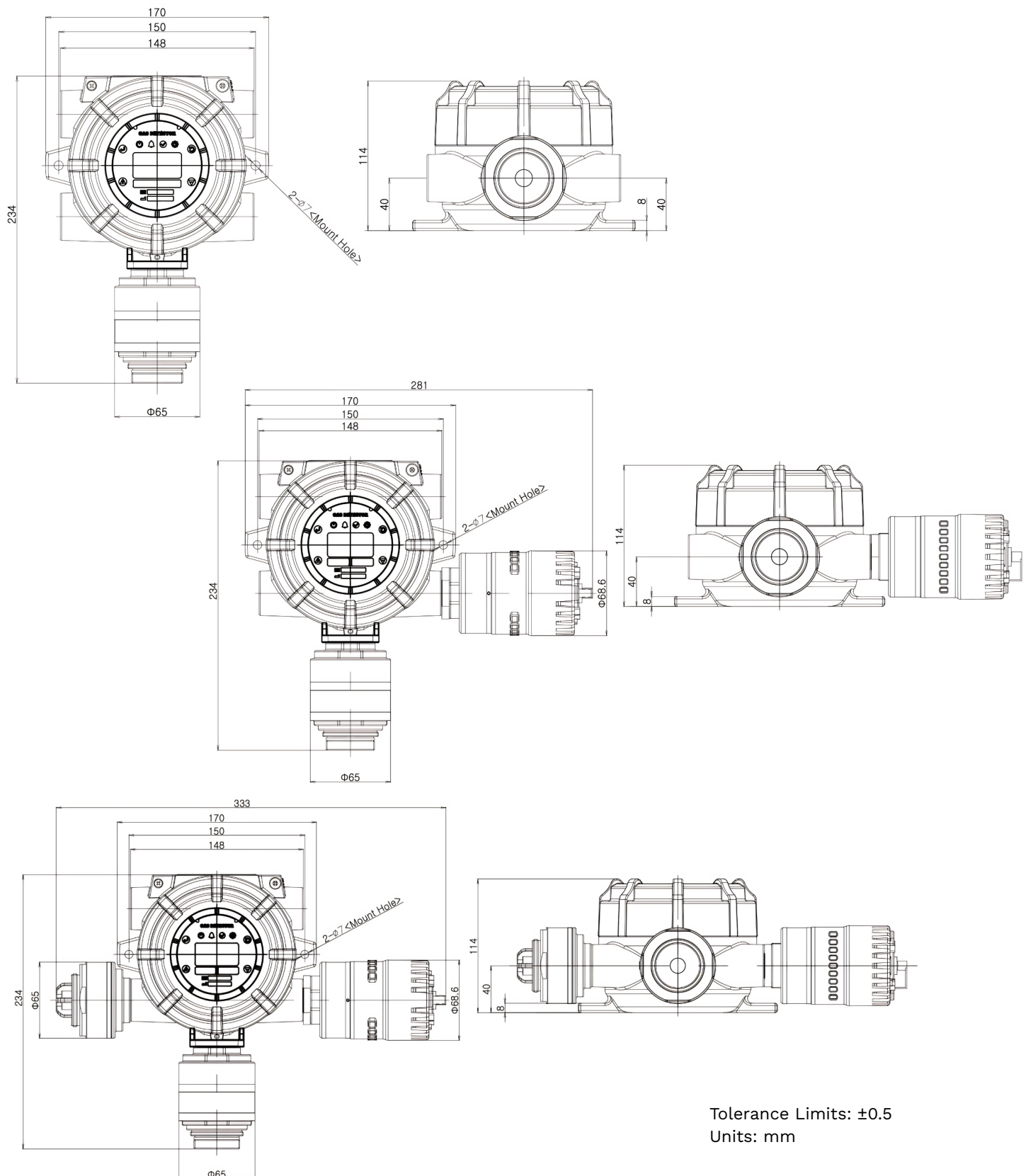
Product Specifications

Measuring Type	Diffusion Type (Standard configuration)
Accuracy	±3% / Full scale
Smart Sensor Configuration	Diffusion (Basic), Insert, Suction type Up to 3 Smart sensors can be configured Remote sensor max 100 m (With Junction box)
Parameter Control	Non-intrusive control with a Magnet bar and Bluetooth wireless communication (Calibration, Maintenance, Alarm setting)
Operation Mode Display	Alarm light ring (Green, Yellow, Red) Power, Alarm, Mode and Fault LED
Measuring Value Display	1.54" Graphic OLED display (Gas concentration, Gas name, Gas trend, Fault etc.)
Alarm Signal Output (Option)	6A @ 30VDC, 6A @ 250VAC (Resistive load) 3-SPDT Relay contact (2 Stage alarm, 1 Trouble)
Output Signal	Analog: Single 4 ~ 20mA or Dual 4 ~ 20mA (Option), Current source or Sink Digital: Isolated RS-485 Modbus (Option), HART (Option)Note: Triple sensor setup is supported only for digital
Operating Power	24VDC normal, 18 to 31VDC
Material	Aluminium alloy or Stainless steel
Cable Entry Thread	Standard: PF 3/4", M20 x 1.5P M25 x 1.5P, NPT 1/2", NPT 3/4", PF 1/2"
Operating Temperature	-40°C to +80°C
Operating Humidity	0 ~ 99% RH (Non condensing)
Additional Interface	Bluetooth, MicroSD Card and Internal HART Port & External I.S. HART Port (Option)
Fault Check	Supply voltage / Current, Memory check, Sensor status / Configuration check, System check
Dimensions	148(W) x 147(H) x 114(D) mm (Aluminium alloy) / 148(W) x 147(H) x 110(D) mm (Stainless steel)
Weight	≤ 1.9kg (Aluminium alloy) ≤ 3.5kg (Stainless steel)

Certification

Hazardous Area Approvals	KCs, ATEX, IECEx, NEPSI
Ex Marking	Ex db ia [ia Ga] IIC T6,T5,T4 Gb / Ex db IIC T6,T5,T4 Gb Ex db ia IIC T6,T5,T4 Gb / Ex tb IIIC T80°C/T90°C/T100°C Db
Communication Protocols	HART
Regulatory Compliance	CE (EMC), KC, CE (RED), CE (RoHS)

Drawing



Tolerance Limits: ± 0.5
Units: mm

Accessories



Buzzer



Rain Cover



Sunshade



Splash Gard



Dust Cap



Sampling Adapter

Controllers



GTC-100 Smart Controller



COMBI Series System



404+ Remote Monitoring System

Other Fixed Detectors



LEL Point 1000

Flammable Gas Detector



TOX Point 1000

Oxygen & Toxic Gas Detector



TOX Point 2000

Oxygen, Toxic & VOC Gas Detector



NDIR Point 3000

Infrared Gas Detector



VOC Point

PID Gas Detector



ATLAS Pump

Explosion-Proof Sampling Gas Detector

Beacon & Sounders



Beacon Sounder



Beacon Sounder ATEX

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WatchGas is dedicated to continuously improving its products. Therefore, the specifications and features mentioned in this datasheet are subject to change without prior notice.

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