



VOC POINT

STATIONARY PHOTOIONIZATION DETECTOR

WatchGas VOC Point is a high-performance fixed VOC detector designed for fast and highly sensitive monitoring, detecting concentrations as low as 10 ppb with a T90 response time of less than 10 seconds.

Combining long-life PID technology, automatic fresh-air zeroing, environmental compensation and flexible system integration, VOC Point delivers reliable monitoring with reduced maintenance and downtime.

Features and Benefits



Faster Response Time

Best-in-class response time, WatchGas VOC Point delivers a T90 of less than 10 seconds for rapid VOC detection. This enables earlier detection of potential leaks, giving operators more time to take action and protect personnel and processes.



Extended Lamp Lifetime

Up to 7 months longer lamp life than comparable detectors, WatchGas VOC Point features a high-stability 10.6 eV hollow cathode lamp with a ceramic discharge channel, delivering more than 15,000 hours of typical lamp life. This reduces maintenance and downtime while lowering long-term operating costs.



Exceptional Detection Sensitivity

Detect VOC concentrations as low as 10 ppb, providing highly sensitive monitoring for early VOC leak detection. This enables users to identify low-level releases sooner and take corrective action before they develop into more serious incidents.



Simplified Maintenance

Automatic fresh-air zeroing through an integrated activated-carbon filter provides clean reference air to automatically establish the sensor zero point. This extends maintenance intervals and reduces routine maintenance, helping minimize detector downtime and keep operations running efficiently.



Reliable Measurements

More than 98% signal integrity up to 100 ppm, combined with reliable measurement performance with temperature and humidity compensation for stable readings under changing conditions. This provides dependable VOC monitoring and greater confidence in alarm decisions.



Flexible Industrial Integration

Four integration options in one detector, including 4–20 mA, 0–5 mA, RS485 Modbus and three SPDT relays, providing flexible connection to control, monitoring and safety systems. This simplifies system integration and installation, helping users connect VOC Point to existing infrastructure with less additional equipment.

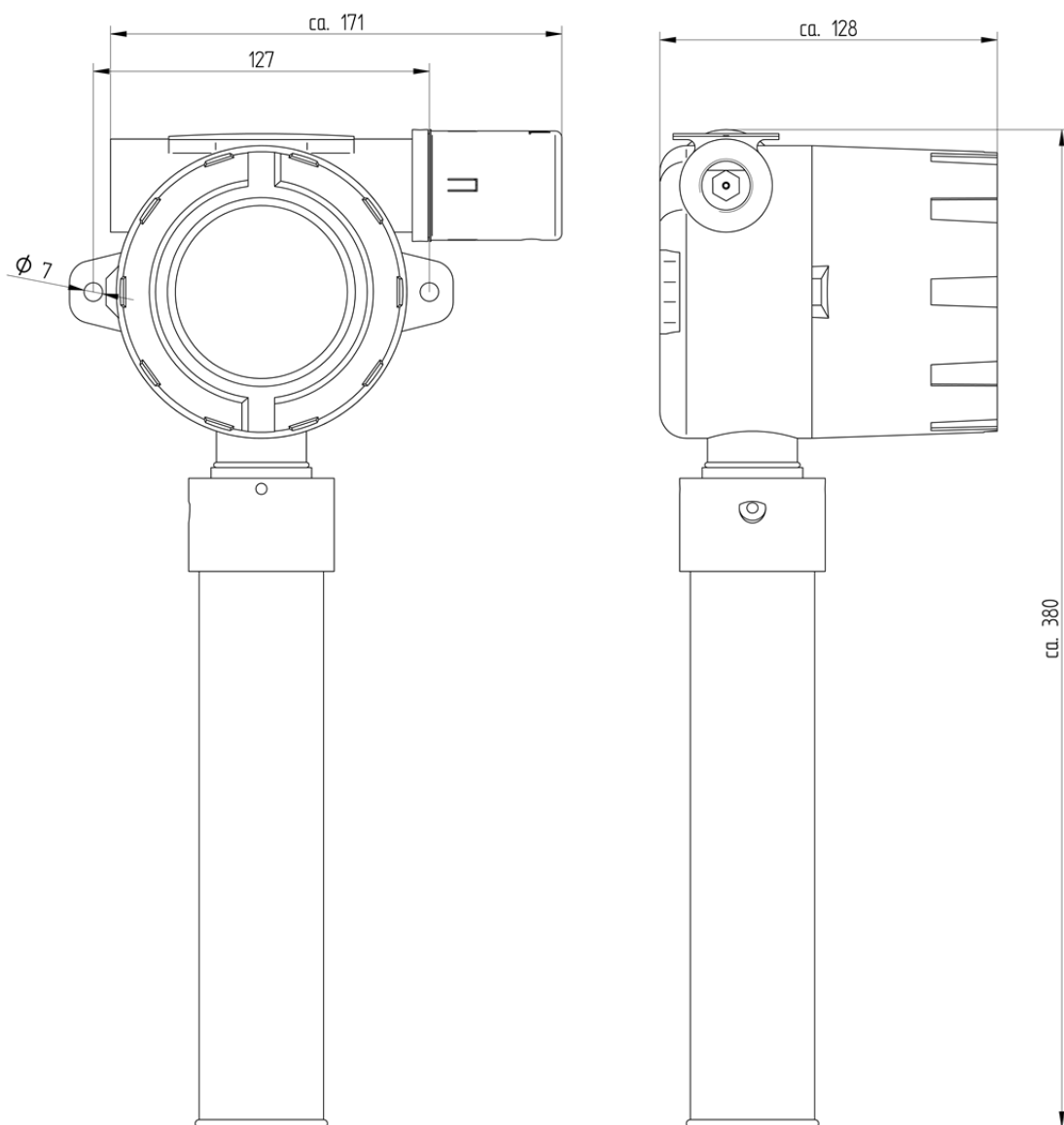
Product Specifications

Detector principle	VUV-Photoionization with 10.6 eV hollow cathode lamp with Ceramic Discharge Channel technology (optional with 11.8 eV lamp)
Detection ranges	0–20 ppm Isobutene* 0–100 ppm Isobutene* 0–2,000 ppm Isobutene*
Display range	0–20,000 ppm, depending on response factor of detected substance
Lower detection limit	Typical 10 ppb*
Display resolution	Dynamic up to 0.01 ppm
Response time	T90 < 10 s*
Signal integrity	Up to 100 ppm: typical >98%* Up to 2,000 ppm: typical >95%*
Influence of humidity	Humidity and temperature compensation at 0–50 °C and 0–90% rH; residual effect less than 10% FS
Operating conditions	-10–55 °C; 0–95% rH, non-condensing
Storage conditions	-20–60 °C; 0–95% rH, non-condensing
Gas sampling	Integrated diaphragm pump (about 250 ml/min); sample inlet with dust and water protection filter
PID lamp lifetime	10.6 eV: Min. 8,000 hours, typical more than 15,000 h 11.8 eV: 4 months from date of delivery
Alarms	2 adjustable alarm levels
Power supply	9–36 VDC, max. 4 W, recommended 24 VDC
Signalisation	2 × LED (red) for alarms, 1 × LED (multicolour) for status
Relays	3 SPDT 30 V / 2 A (surge current), 2 × for alarms, 1 × for failure
Analog output	Current loop, 4–20 mA and 0–5 mA
Digital interface	RS485 (MODBUS)
Calibration	Automatic two-point calibration; zero gas via activated charcoal filter, span gas via sample inlet
Response factors	Selectable built-in response factors, changeable via remote service program
User interface	Graphical display with backlight, magnetic keys
Dimensions, weight	200 mm × 370 mm × 133 mm (L × W × H), about 2,200 g
Ingress Protection	IP64, sample inlet with dust and water protection filter
Warranty	2 years, except for components in gas path and wearing parts

* The indicated values were obtained under standardized conditions with 10.6eV lamp. Test gas was isobutene in synthetic air.

Certification

Hazardous Area Approvals	ATEX, IECEx
Ex Marking	II 2G Ex db IIC T6 Gb -40 °C ≤ Ta ≤ +60 °C
Regulatory Compliance	EMC Directive 2014/30/EU

Drawing

Dimensions shown in millimetres.

Accessories



Magnet Stick



Dust Filter



Long Life Dust Filter

Controllers



GTC-100 Smart Controller



COMBI Series System



404+ Remote Monitoring System

Other Fixed Detectors



LEL Point 2000

Flammable Gas Detector



TOX Point 1000

Oxygen & Toxic Gas Detector



TOX Point 2000

Oxygen, Toxic & VOC Gas Detector



NDIR Point 3000

Infrared Gas Detector



ATLAS Pump

Explosion-Proof Sampling Gas Detector



MULTI Point

Explosion-proof Multi-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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