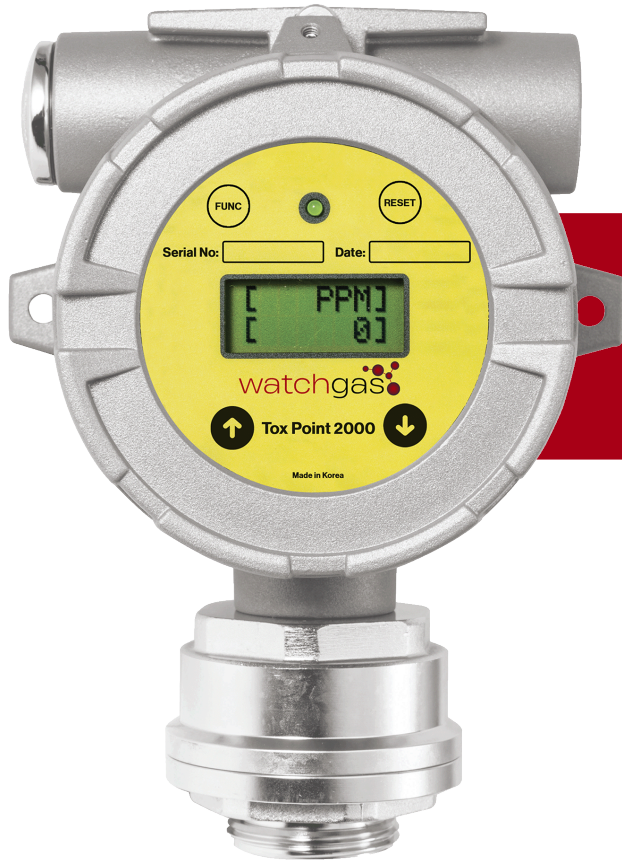




TOX POINT 2000

SMART DIFFUSION TOXIC / OXYGEN / VOC GAS DETECTOR

TOX Point 2000 is an explosion-proof gas detector designed for monitoring oxygen, toxic gases, and volatile organic compounds (VOCs), ensuring safe and reliable operation in hazardous environments.

Equipped with an integrated display and HART communication, it supports remote configuration and convenient one-person calibration using a magnetic bar.

Features and Benefits



Broad Gas Detection Capability

Engineered for toxic gas, oxygen, and VOC monitoring, the TOX Point 2000 supports up to 300 detectable gases to suit diverse industrial applications. Optimized sensing technologies deliver high selectivity and reliable detection at low concentrations, helping minimize false alarms while improving worker safety and process reliability.



Explosion-Proof Housing Options

Available in aluminium or stainless-steel housing, providing the ideal balance of weight, durability, corrosion resistance, and cost. Certified flameproof construction helps prevent secondary explosions and ensures reliable gas detection in hazardous environments.



Cost-Effective Ownership

Designed to deliver dependable gas detection with minimal maintenance requirements and long service life. Provides a cost-effective solution without compromising safety, performance, or reliability.



Advanced Display Options

Available with a backlit LCD or optional OLED display. The OLED display provides superior visibility and improved performance in low-temperature environments, making it ideal for demanding outdoor applications.



HART 7 Communication

Supports HART 7 communication for remote configuration, diagnostics, and maintenance. Provides enhanced device integration and access to critical operating data, reducing field service time, lowering maintenance costs, and improving operational efficiency.



Flexible Accessories

A wide range of accessories, including splash guards, weatherproof covers, and relay modules, allows the detector to be tailored to specific applications. Enhances protection, flexibility, and long-term performance.

Product Specifications

Measuring method	Galvanic cell	Electrochemical cell		Semiconductor cell	Photo-Ionization Detector (PID)
Measuring gas	O ₂	O ₂	Toxic gas	VOC gas	VOC gas
Response Time (T ₉₀)	< 15 seconds	< 15 seconds	Varies by gas	Varies by gas	Varies by gas
Sensor housing material	SS316	SS316	SS316	SS316	SS316
Accuracy & Repeatability	±2% / Full scale				
Parameter control	Non-intrusive control with a Magnet bar (Calibration, Maintenance)				
Operation mode display	1-LED (Power)				
Measuring value display	LCD display (Built-in back light 2-Line, 8 Characters) / OLED type (Option)				
Output signal	Analog: 4-20mA Analog output (Source/Sink) / Maintenance signal: 4mA / Calibration signal: 3mA / Fault signal: 0mA / Digital: 2mA (HART 7, HART Device description language available, Option) Relay: (Option)				
Housing material	Aluminium alloy or Stainless steel				
Cable entry thread	Standard: PF 3/4" Option: PF 1/2", M20 x 1.5P, M25 x 1.5P, NPT 1/2", NPT 3/4"				
Mounting type	2" Pole mount, Wall mount				
Operating Voltage	24V DC (18V DC to 32V DC)				
Operating temperature	-40°C ~ 80°C				
Operating humidity	5 ~ 99% RH (Non-condensing)				
Dimensions	136(W) x 176(H) x 110(D) mm				
Weight	1.7kg (Aluminium alloy) / 3.4kg (Stainless steel)				

Certification

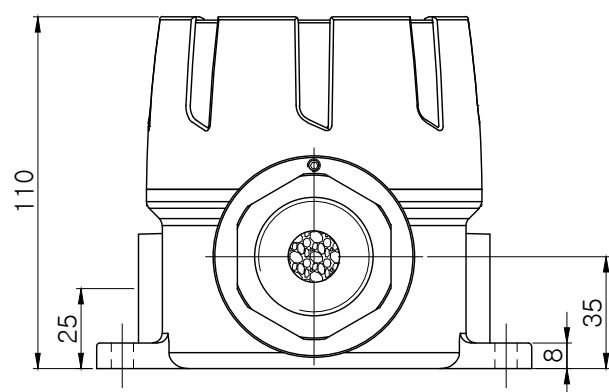
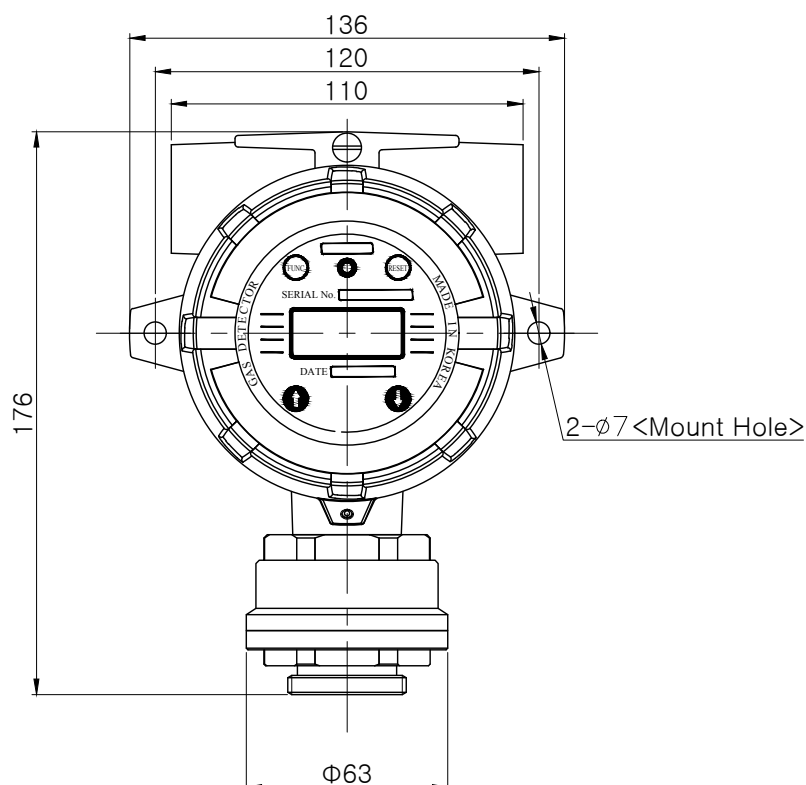
Hazardous Area Approvals	ATEX, IECEx, UL, FM, KCs, NEPSI, PESO, TIIS, TR CU Ex, TS, ECAS Ex
Ex Marking	Ex db IIC Gb T6/T4
Marine Approvals	ABS, BV, CCS, DNV, KR, LR, MED, RINA, RS
Functional Safety	SIL2
Communication & Protocols	HART, PAC
Regulatory Compliance	CE (EMC), CE (RoHS)
Ingress Protection	IP66/67

Detectable Gases

Gas	Range	Gas	Range
Oxygen (O ₂)	0–25% Vol.%	Fluorine (F ₂)	0–3.0 ppm
Hydrogen Sulfide (H ₂ S)	0–30.0 ppm	Ethylene Oxide (C ₂ H ₄ O)	0–20.0 ppm
Carbon Monoxide (CO)	0–150 ppm 0–300 ppm	Ozone (O ₃)	0–1.0 ppm
Nitrogen Dioxide (NO ₂)	0–10.0 ppm	Arsine (AsH ₃)	0–0.30 ppm
Hydrogen (H ₂)	0–2000 ppm	Bromine (Br ₂)	0–3.0 ppm
Ammonia (NH ₃)	0–75.0 ppm	Diborane (B ₂ H ₆)	0–0.30 ppm
Phosphine (PH ₃)	0–1.0 ppm	Germane (GeH ₄)	0–15.0 ppm
Chlorine (Cl ₂)	0–3.0 ppm	Phosgene (COCl ₂)	0–1.0 ppm
Sulfur Dioxide (SO ₂)	0–10.0 ppm	Silane (SiH ₄)	0–15.0 ppm
Chlorine Dioxide (ClO ₂)	0–1.0 ppm	Formaldehyde (CH ₂ O)	0–10.0 ppm
Nitrogen Monoxide (NO)	0–100 ppm	Acetone (C ₃ H ₆ O)	0–1% Vol.%
Hydrogen Chloride (HCl)	0–3.0 ppm 0–10.0 ppm	Vinyl Chloride (C ₂ H ₃ Cl)	0–30.0 ppm 0–200 ppm
Hydrogen Cyanide (HCN)	0–30.0 ppm	Benzene (C ₆ H ₆)	0–1500 ppm
Hydrogen Fluoride (HF)	0–6.0 ppm	Toluene (C ₇ H ₈)	0–150 ppm

* 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.

Drawing



Tolerance Limits: ±0.5
Units: mm

TOX Point 2000

SMART DIFFUSION TOXIC / OXYGEN / VOC GAS DETECTOR



Accessories



Splash Guard



TOX Point 2000 collect cone



TOX Point 2000 weather proof cover



TOX Point 2000 SS weather proof cover



TOX Point 2000 magnetic Bar



TOX Point 2000 calibration cap

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



LEL Point 2000

Flammable 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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