



LEL POINT 2000

SMART DIFFUSION FLAMMABLE GAS DETECTOR

LEL Point 2000 is an explosion-proof gas detector designed for monitoring flammable gases, 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 combustible gas monitoring, the LEL Point 2000 supports detection of over 100 flammable gases to suit diverse industrial applications. Optimized sensing technology delivers fast and reliable leak detection, helping reduce explosion risks while enhancing worker safety and operational 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.



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.



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.



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	Catalytic Cell Hot Wire	Hot Wire Semiconductor Cell	Thermal Conductivity Cell
Measuring Gas	Flammable gas	Flammable gas	Flammable gas
Measuring Range & Resolution	0 ~ 100% LEL / 1% LEL	0 ~ 2000 ppm / 1 ppm	0 ~ 100% Vol / 1% Vol
Response Time (T90)	< 10 seconds	< 10 seconds	< 10 seconds
Sensor Housing Material	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 backlight, 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 available, Option), Relay (Option)		
Detector Housing Material	Aluminium alloy or Stainless steel		
Cable Entry Thread	Standard: PF 3/4" • Option: PF 1/2", M20 × 1.5P, M25 × 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) × 166(H) × 110(D) mm		
Weight	1.4 kg (Aluminium alloy) 3.1 kg (Stainless steel)		

Certification

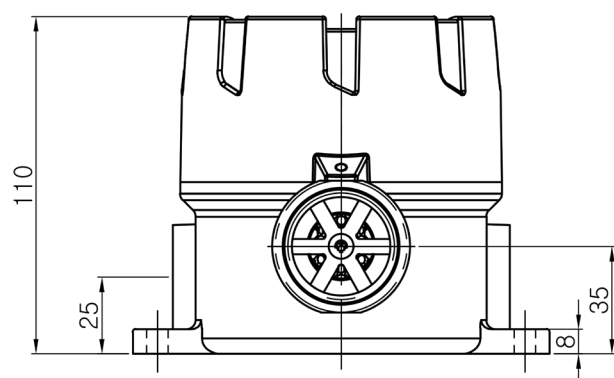
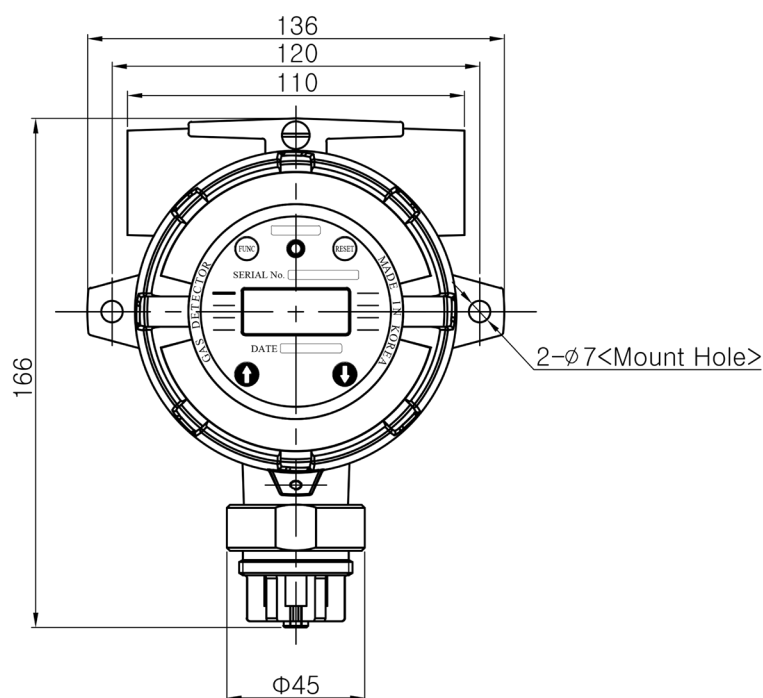
Hazardous Area Approvals	ATEX, IECEx, KCs, NEPSI, UL, PESO, TIIS, TR CU Ex, TS, ECAS Ex
Ex Marking	Ex db IIC Gb T6/T5/T4
Marine Approvals	KR, MED, ABS, BV, DNV, CCS, RS, LR, RINA
Functional Safety	SIL2
Communication Protocols	HART, PAC
Regulatory Compliance	KC (EMC), CE (EMC), CE (RoHS), CPA, KFI
Ingress Protection	IP66/67

Detectable Gases

Flammable Gases	Flammable Gases
Methane (CH_4)	Ethanol ($\text{C}_2\text{H}_5\text{OH}$)
Ethane (C_2H_6)	Methanol (CH_3OH)
Propane (C_3H_8)	Toluene (C_7H_8)
Propylene (C_3H_6)	Mixed Xylene (C_8H_{10})
n-Butane (C_4H_{10})	Acetone ($\text{C}_3\text{H}_6\text{O}$)
Isobutane (C_4H_{10})	Ethyl Acetate ($\text{C}_4\text{H}_8\text{O}_2$)
Pentane (C_5H_{12})	Methyl Ethyl Ketone (MEK) ($\text{C}_4\text{H}_8\text{O}$)
Hexane (C_6H_{14})	Isopropyl Alcohol (IPA) ($\text{C}_3\text{H}_8\text{O}$)
Heptane (C_7H_{16})	Tetrahydrofuran (THF) ($\text{C}_4\text{H}_8\text{O}$)
Hydrogen (H_2)	Diethyl Ether (Ethyl ether) ($(\text{C}_2\text{H}_5)_2\text{O}$)
Acetylene (C_2H_2)	Ethylene Oxide ($\text{C}_2\text{H}_4\text{O}$)
Ethylene (C_2H_4)	Styrene (C_8H_8)
Isoprene (C_5H_8)	Vinyl Acetate ($\text{C}_4\text{H}_6\text{O}_2$)
Cyclohexane (C_6H_{12})	Methyl Methacrylate (MMA) ($\text{C}_5\text{H}_8\text{O}_2$)

* 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

LEL Point 2000

SMART DIFFUSION FLAMMABLE GAS DETECTOR



Accessories



Splash Guard



LEL Point 2000 collect cone



LEL Point 2000 weather proof cover



LEL Point 2000 SS weather proof cover



LEL Point 2000 magnetic Bar



LEL 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



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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