



## LEL POINT 1000

### FLAMMABLE GAS DETECTOR

LEL Point 1000 is a compact, explosion-proof gas detector designed for continuous monitoring of flammable gases and vapors in hazardous areas.

Combining reliable performance, easy maintenance, and cost-effective operation, it provides a practical solution for industrial flammable gas detection applications.

## Features and Benefits



### Broad Gas Detection Capability

Engineered for combustible gas monitoring, the LEL Point 1000 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 Design

Certified explosion-proof construction helps prevent secondary explosions and enables reliable flammable gas detection in hazardous areas. A lightweight aluminium alloy enclosure and corrosion-resistant stainless-steel sensor housing ensure durability in demanding industrial 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.



### Easy Maintenance

An integrated FND display simplifies calibration, configuration, and maintenance tasks directly at the detector. Designed for efficient one-person servicing, it reduces maintenance time, lowers labor costs, and minimizes system downtime.



### Flexible Output Configuration

Supports 4-20 mA analog output for easy integration with gas detection controllers, PLCs, and plant monitoring systems. Its flexible output design simplifies installation and ensures reliable transmission of gas concentration data for continuous safety monitoring.



### Flexible Accessories

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

## Product Specifications

| Measuring Method          | Catalytic Cell                                                                   | Hot Wire Semiconductor Cell | Thermal Conductivity Cell |
|---------------------------|----------------------------------------------------------------------------------|-----------------------------|---------------------------|
| Measuring Gas             | Flammable gas                                                                    | Flammable gas               | Flammable gas             |
| Measuring Range           | 0 ~ 100% LEL                                                                     | 0 ~ 2000 ppm                | 0 ~ 100% Vol              |
| Response Time (T90)       | < 15 seconds                                                                     | < 15 seconds                | < 15 seconds              |
| Sensor Housing Material   | SS316                                                                            | SS316                       | SS316                     |
| Measuring Type            | Diffusion type                                                                   |                             |                           |
| Accuracy                  | ±3% / Full scale                                                                 |                             |                           |
| Output Signal             | Analog: 4-20mA Analog output                                                     |                             |                           |
| Detector Housing Material | Aluminium alloy                                                                  |                             |                           |
| Cable Entry Thread        | Standard: PF 3/4"<br>Option: PF 1/2", M20 × 1.5P, M25 × 1.5P, NPT 1/2", NPT 3/4" |                             |                           |
| Mounting Type             | 2" Pole mount, Wall mount                                                        |                             |                           |
| Operating Temperature     | -20°C to +60°C                                                                   |                             |                           |
| Operating Humidity        | 5 ~ 99% RH (Non-condensing)                                                      |                             |                           |
| Dimensions                | 136(W) × 166(H) × 95(D) mm                                                       |                             |                           |
| Weight                    | 1.2 kg                                                                           |                             |                           |

## Certification

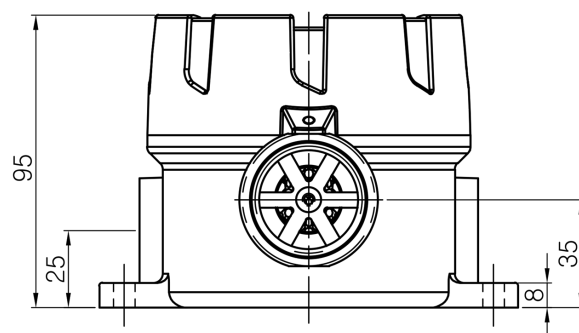
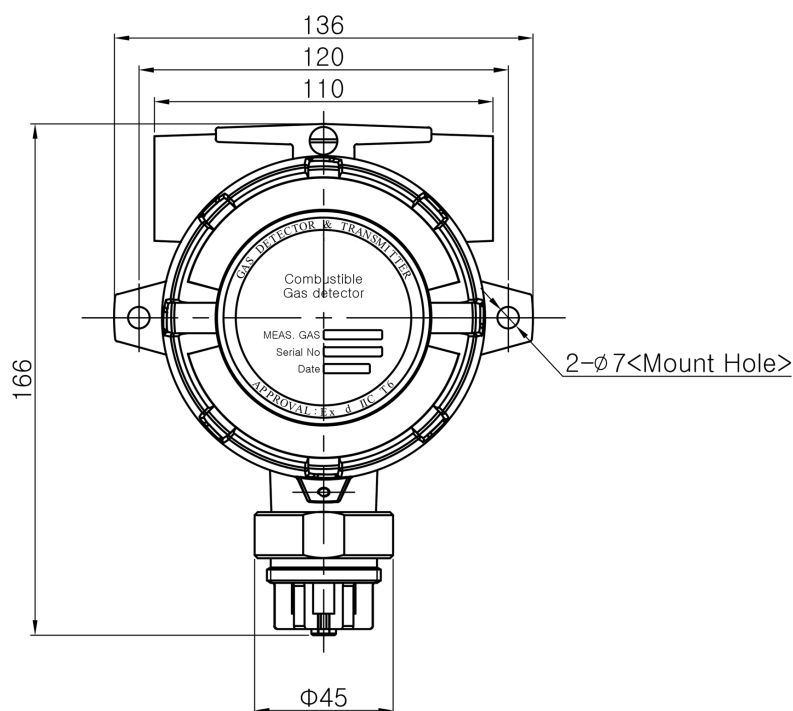
|                          |                                                |
|--------------------------|------------------------------------------------|
| Hazardous Area Approvals | ATEX, IECEx, KCs                               |
| Ex Marking               | Ex db IIC T6...T4 Gb                           |
| Regulatory Compliance    | CE (EMC), KC, KFI, Thailand Ministry of Energy |

## Detectable Gases

| Flammable Gases                           | Flammable Gases                                                    |
|-------------------------------------------|--------------------------------------------------------------------|
| Methane ( $\text{CH}_4$ )                 | Ethanol ( $\text{C}_2\text{H}_5\text{OH}$ )                        |
| Ethane ( $\text{C}_2\text{H}_6$ )         | Methanol ( $\text{CH}_3\text{OH}$ )                                |
| Propane ( $\text{C}_3\text{H}_8$ )        | Toluene ( $\text{C}_7\text{H}_8$ )                                 |
| Propylene ( $\text{C}_3\text{H}_6$ )      | Mixed Xylene ( $\text{C}_8\text{H}_{10}$ )                         |
| n-Butane ( $\text{C}_4\text{H}_{10}$ )    | Acetone ( $\text{C}_3\text{H}_6\text{O}$ )                         |
| Isobutane ( $\text{C}_4\text{H}_{10}$ )   | Ethyl Acetate ( $\text{C}_4\text{H}_8\text{O}_2$ )                 |
| Pentane ( $\text{C}_5\text{H}_{12}$ )     | Methyl Ethyl Ketone (MEK) ( $\text{C}_4\text{H}_8\text{O}$ )       |
| Hexane ( $\text{C}_6\text{H}_{14}$ )      | Isopropyl Alcohol (IPA) ( $\text{C}_3\text{H}_8\text{O}$ )         |
| Heptane ( $\text{C}_7\text{H}_{16}$ )     | Tetrahydrofuran (THF) ( $\text{C}_4\text{H}_8\text{O}$ )           |
| Hydrogen ( $\text{H}_2$ )                 | Diethyl Ether (Ethyl ether) ( $(\text{C}_2\text{H}_5)_2\text{O}$ ) |
| Acetylene ( $\text{C}_2\text{H}_2$ )      | Ethylene Oxide ( $\text{C}_2\text{H}_4\text{O}$ )                  |
| Ethylene ( $\text{C}_2\text{H}_4$ )       | Styrene ( $\text{C}_8\text{H}_8$ )                                 |
| Isoprene ( $\text{C}_5\text{H}_8$ )       | Vinyl Acetate ( $\text{C}_4\text{H}_6\text{O}_2$ )                 |
| Cyclohexane ( $\text{C}_6\text{H}_{12}$ ) | 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:  $\pm 0.5$   
Units: mm

## Accessories



**Splash Guard**



**LEL Point 1000 collect cone**



**LEL Point 1000 weather proof cover**



**LEL Point 1000 SS weather proof cover**



**LEL Point 1000 calibration cap**

## 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



**VOC Point**

PID Gas Detector



**ATLAS Pump**

Explosion-proof Sampling Gas Detector

## Beacon & Sounders



**Beacon Sounder**



**Beacon Sounder ATEX**

### For more information

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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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