



SAMPLER POINT 5000

SAMPLING GAS DETECTOR

The WatchGas Sampler Point 5000 is an advanced gas sampling system designed to deliver accurate and reliable gas monitoring in demanding industrial and semiconductor environments.

With optional Pyrolyzer technology, broad gas detection capabilities, intelligent signal processing, and simplified maintenance, it provides a flexible and cost-effective solution for critical gas detection applications.

Features and Benefits



Pyrolyzer Unit

The WatchGas Sampler Point 5000 can be equipped with an optional **Pyrolyzer Unit** to enable the detection of gases that require thermal decomposition before measurement. By converting target compounds into detectable gases, the Pyrolyzer expands monitoring capabilities and provides greater flexibility for specialized industrial and semiconductor applications.



Broad Gas Detection Capabilities

The WatchGas Sampler Point 5000 detects a wide range of gases, including **combustible, toxic, Freon, oxygen, and VOC gases**. This versatile capability allows a single detector to meet multiple monitoring needs while improving workplace safety.



Quick-Change Sensor Cartridge

The WatchGas Sampler Point 5000 utilizes a quick-change **sensor cartridge** design for rapid sensor replacement and servicing. By simplifying maintenance procedures, it reduces labor requirements, shortens downtime, and lowers maintenance costs.



Fast Gas Leak Response

Equipped with a **high-performance internal pump**, the Sampler Point 5000 rapidly draws gas samples from remote or hard-to-reach areas for fast leak detection. This ensures quick response times and reliable monitoring in critical applications.



Intelligent Signal Processing

The Sampler Point 5000 utilizes **advanced signal filtering technology** to reduce the effects of particulate matter and environmental interference. By delivering cleaner and more stable measurements, it enhances detection reliability in demanding industrial and semiconductor applications.



Seamless Communication

The Sampler Point 5000 supports **4-20 mA, RS-485, and PoE communication**, allowing easy integration with existing monitoring systems. This flexible connectivity enables reliable real-time data transmission and simplifies system deployment across a wide range of industrial applications.

Product Specifications

Measuring Method	Measurable Gas	Response Time (T90)
Infrared	Freon Gas	< 15 sec
Infrared	Flammable Gas	< 15 sec
Infrared	Toxic Gas	< 15 sec
Infrared	Precursor Gas	< 15 sec (Default) / < 50 sec (TEOS, OMCTS)
Catalytic Cell	Flammable Gas	< 15 sec
Hot Wire Semiconductor Cell	Flammable Gas	< 20 sec
Thermal Conductivity Cell	Flammable Gas	< 15 sec
Galvanic Cell	O ₂	< 15 sec
Electrochemical Cell	O ₂	< 15 sec
Electrochemical Cell	Toxic Gas	< 45 sec (Default), < 45 sec (O ₃), < 45 sec (HCl), < 90 sec (HF)
Electrochemical Cell	Flammable Gas	< 15 sec
Photo-Ionization Detector (PID)	VOC Gas	Varies by gas
Measuring Type	Auto Sampling Type	
Accuracy	±3% Full Scale	
Parameter Control	Front Switch (Calibration, Maintenance, Alarm Setting)	
Operation Mode Display	2.0" Color TFT LCD (Detector Status, Gas Information, Error Codes, etc.) / LED Indicator (Power, 2-Stage Alarm, Trouble)	
Measuring Value Display	2.0" Color TFT LCD (Gas Value, Flow Rate, etc.)	
Alarm Signal Output	2A @ 30VDC, 0.5A @ 125VAC / 3 Relay Contacts (2-Stage Alarm, 1-Trouble)	
Output Signal	Analog 4-20 mA, Relay, RS-485 Modbus (Optional), PoE (Optional)	
Sampling Method	Diaphragm Pump	
Sampling Line	OD 1/4" (Standard)	
Flow Rate	0 ~ 1000 mL/min (Normal 500 mL/min)	
Housing Material	Aluminum Alloy	
Conduit Connection	Cable Gland (PG-16)	
Mounting Type	Wall Mount	
Operating Temperature	-10°C to +60°C	
Operating Humidity	5 ~ 99% RH (Non-Condensing)	
Dimensions	Standard Type: 70(W) × 176(H) × 160(D) mm Pyrolyzer Type: 70(W) × 242.5(H) × 160(D) mm	
Weight	Standard Type: 1.9 kg Pyrolyzer Type: 2.2 kg	
Operating Power	Standard Type: 9.0 W @ 24VDC (Max) PoE Type: 10.1 W @ 48VDC (Max)	

Certification

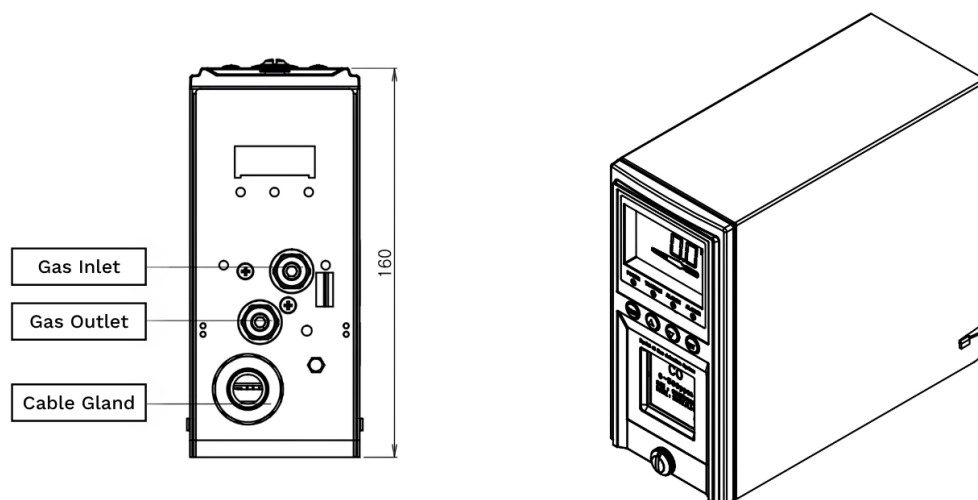
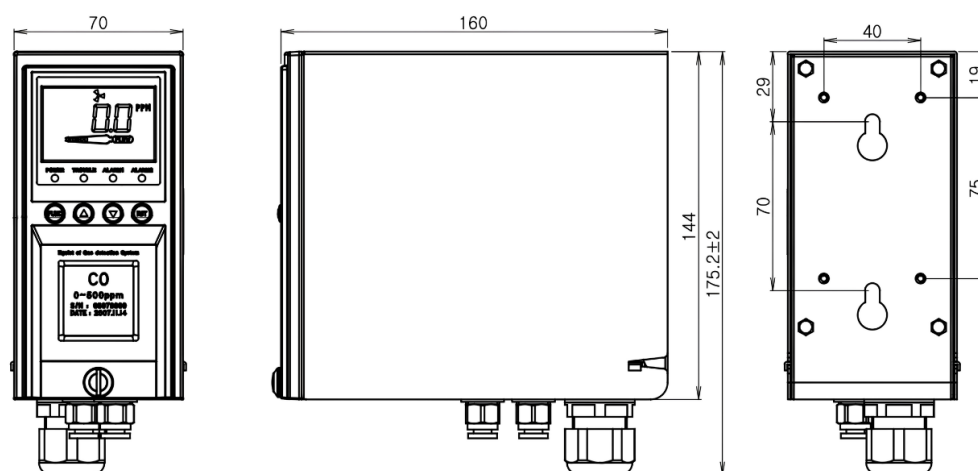
Regulatory Compliance	CE (RoHS), CE (EMC), KC, NRTL (TÜV), CPA
-----------------------	--

Detectable Gases

Category	Sample Gases	Measuring Range
Flammable Gas	Methane, Propane, Butane, Pentane, Hexane, Ethylene, Propylene, Acetone, Ethanol, IPA, MEK, Toluene, Xylene, Styrene	0-100% LEL
Freon Gas	R-23, R-32, R-236ea	Up to 2000 ppm
Toxic Gas	Carbon Dioxide (CO ₂), Carbon Monoxide (CO), Nitrous Oxide (N ₂ O), Nitrogen Trifluoride (NF ₃), Dichloromethane (CH ₂ Cl ₂)	Varies by gas
Precursor Gas	OMCTS (Octamethylcyclotetrasiloxane), HMDS (Hexamethyldisilazane), HMDSO (Hexamethyldisiloxane)	Varies by gas
Oxygen	Oxygen (O ₂)	0 - 25 vol.%
VOC Gas	Benzene, Toluene, Xylene, Phenol.	Up to 200 ppm

* This table highlights only a small 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

Accessories



Pyrolyzer Unit



**Sampler Point
5000 Micro Filter**



**Sampler Point
5000 Mounting
Bracket**

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



**TOX Point
2000**

Oxygen, Toxic & VOC
Gas Detector



VOC Point

PID Gas Detector



ATLAS Pump

Explosion-Proof
Sampling Gas Detector

Beacon & Sounders



Beacon Sounder



**Beacon Sounder
ATEX**

For more information

www.watchgas.com
info@watchgas.com

/
/

www.watchgasusa.com
info@watchgasusa.com

SAMPLER Point 5000 DS EN V260615 8.26 AB © 2026 WatchGas B.V.

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

Distributed by: