watchgas
detection

SAMPLER POINT

INTELLIGENT & SAMPLING TYPE GAS DETECTOR

The Sampler Point is a smart, high-performance gas detector that uses a built-in pump to quickly and accurately sample gases such as combustible gases, toxic gases, freon, oxygen, and VOCs. It's ideal for sensitive environments like semiconductor facilities, with a specialized filtering algorithm that targets PM materials and other process-related contaminants.

With support for 4–20 mA, RS-485, and PoE communication, it integrates easily into various monitoring systems. Maintenance is simplified with a cartridge-type sensor, and built-in relay contacts offer added control for automated safety responses.

FEATURES AND BENEFITS

Multi-Gas Detection Capability

Detects a wide range of gases including combustible gases, toxic gases, freon, oxygen, and VOCs (volatile organic compounds).

High-Performance Sampling Pump

Rapidly draws and analyzes air samples from designated areas for fast and accurate detection.

Advanced Filtering Algorithm

Applies specialized filtering optimized for semiconductor processes, effectively handling PM materials and other contaminants.

Versatile Communication Options

Supports 4–20 mA, RS-485, and PoE for flexible integration into various monitoring and control systems.

Cartridge-Type Sensor Design

Enables quick and easy sensor replacement, significantly improving maintenance convenience.

Built-in Relay Contacts

Provides enhanced control for safety systems and automation through relay output functionality.

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DETECTOR SPECIFICATIONS

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 info, Error code etc.) | LED indicator (Power, 2-Stage alarm, 1-Trouble)
Measuring value display	Sampler Point: LCD display (4-Digit) Sampler Point LCD Version: 2.0" Color TFT LCD (Gas value, Flow rate etc.)
Alarm signal output	2A@30VDC, 0.5A@125VAC / 3 Relay contact (2-Stage alarm, 1-Trouble)
Output signal	Analog 4-20mA, Relay, RS-485 Modbus (Option), PoE (Option)
Sampling method	Diaphragm pump
Sampling line	OD 1/4 "(Standard)
Flow rate	0 ~ 1000mL/min (Normal 500mL/min)
Material	Aluminum alloy
Conduit connection	Cable gland (PG-16)
Mounting type	Wall mount
Operating temperature	-10 ~ 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 : 1.9kg Pyrolyzer type : 2.2kg
Operating power	Standard type : 9.0W @24VDC (Max) PoE type : 10.1W @48VDC (Max)

DETECTOR CERTIFICATIONS

Certifications	CE(EMC)	European Electromagnetic Certification	
	CPA	China Measuring Instrument Certification	
	NRTL(TUV)	U.S. Security Certification	-
	KC	Korea Electromagnetic Certification	
	CE(RoHS)	European Hazardous Substances Certification	

SENSOR SPECIFICATIONS

Measuring Method	Measurable gas	Measuring range	Response time
Infrared	Freon gas	0 ~ 2000ppm	< 15sec / 90% scale
	Flammable gas	0 ~ 100% LEL	< 15sec / 90% scale
	Toxic gas	*	< 15sec / 90% scale
	Precursor gas	*	< 15sec (Default) < 50sec (TEOS, OMCTS)
Catalytic cell	Flammable gas	0 ~ 100% LEL	< 15sec / 90% scale
Hot wire semiconductor cell	Flammable gas	0 ~ 2000ppm	< 20sec / 90% scale
Thermal conductivity cell	Flammable gas	*	< 15sec / 90% scale
Galvanic cell	O_2	*	< 15sec / 90% scale
Electrochemical cell	O_2	*	< 15sec / 90% scale
	Toxic gas	*	< 45sec (Default) / < 60sec (O_3) < 70sec (HCl) / < 100sec (HF)
	Flammable gas	*	< 15sec / 90% scale
Photo-Ionization Detector(PID)	VOC gas	*	Varies by gas

* = Refer to Toxic gas measuring range

FOR MORE INFORMATION
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