

**Intelligent & Sampling Type Gas Detector**

# GTD-5000



**GTD-5000  
LCD Version**

**GTD-5000  
TFT Version**

## Features

- It detects gases such as combustible gases, toxic gases, freon, oxygen, and VOCs(volatile organic compounds).
- With its high-performance pump, it rapidly identifies gas in the designated area.
- The filtering algorithm for the semiconductor process PM material & ETC is applied.
- You can build a monitoring system with 4-20 mA & RS-485 or PoE communication.
- The application of a cartridge-type sensor has improved the convenience of maintenance.
- Equipped with relay contacts for enhanced operational control.

## Accessories



Micro filter



Mounting bracket



PY-1000



Sensor cartridge

## Sensor Specification

\* = Refer to Toxic gas measuring range

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	O2	*	< 15sec / 90% scale
Electrochemical cell	O2	*	< 15sec / 90% scale
	Toxic gas	*	< 45sec (Default) / < 60sec (O3) < 70sec (HCl) / < 100sec (HF)
	Flammable gas	*	< 15sec / 90% scale
	Photo-Ionization Detector(PID)	VOC gas	*

## Detector Specification

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	GTD-5000 : LCD display (4-Digit) GTD-5000 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 Certification

Other 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	