

Explosion Proof Type Sampling Gas Detector

GTD-5000F



Features

- It detects gases such as combustible gases, toxic gases, oxygen, hydrocarbons, and VOCs.
- With its high-performance pump, it rapidly identifies gas in the designated area.
- It is designed with an explosion-proof structure, ensuring there is no risk of secondary explosions.
- The cartridge-type sensor allows for easy sensor replacement, reducing downtime and simplifying maintenance processes.
- Equipped with RS-485 Modbus communication capability.
- Equipped with relay contacts for enhanced operational control.

Accessories



Micro filter



Mounting bracket



Cable gland



Male connector



RS-485 Module



PY-1000

Sensor Specification

* = Refer to Toxic gas measuring range

Measuring method	Measurable gas	Measuring range	Response time
Infrared	Hydrocarbon gas	0 ~ 100% LEL 0 ~ 5000ppm	< 6sec / 90% scale < 3sec / 50% scale
	CO2	0 ~ 5.0% Vol	< 6sec / 90% scale < 3sec / 50% scale
	CO, N2O	0 ~ 2.0% Vol 0 ~ 4000ppm	< 6sec / 90% scale < 3sec / 50% scale
Catalytic cell	Flammable gas	0 ~ 100% LEL	< 15sec / 90% scale
Hot wire semiconductor cell	Flammable gas	0 ~ 2000ppm	< 15sec / 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 / 90% scale
Photo-ionization Detector(PID)	VOC gas	*	Varies by gas

Detector Specification

Measuring type	Auto sampling type
Accuracy	±3% / Full scale
Parameter control	Non intrusive control with a Magnet bar (Calibration, Maintenance)
Operation mode display	Alarm / Trouble LED, Flow rate
Measuring value display	FND display (4-Digit)
Alarm signal output	2A@30VDC, 0.5A@125VAC (Resistive load) / 3-SPST Relay contact (2 Stage alarm, 1 Trouble)
Output signal	Analog 4~20mA, Relay, RS-485 Modbus (Option)
Sampling method	Diaphragm pump
Sampling line	OD 1/4 " (Standard)
Flow rate	0 ~ 1000mL/min (Normal 500mL/min)
Material	ALDC
Conduit connection	Standard : PF 3/4" Option : NPT 3/4" M25 PF 1/2" NPT 1/2" M20 (With Explosion proof reducer)
Mounting type	Wall mount, Option
Operating temperature	-10°C ~ 60°C
Operating humidity	5 ~ 99% RH (Non-condensing)
Dimensions	268(W) × 238.3(H) × 154(D) mm
Weight	5kg
Operating power	Standard type : 9.6W @24VDC (Max) PoE type : 10.1W @48VDC (Max)

Detector Certification

Explosion Proof Certification	KCs	Korea Explosion Proof Certification	Ex d IIC T6
	IECEx	International Explosion Proof Certification	Ex d IIB+H2 T6/T5 Gb
	ATEX	European Explosion Proof Certification	Ex d IIB+H2 T6/T5 Gb
	NEPSI	China Explosion Proof Certification	Ex db IIB+H2 T5/T6 Gb
	TS	Taiwan Explosion Proof Certification	Ex d IIB+H2 T6/T5 Gb
Other Certifications	KC	Korea Electromagnetic Certification	-
	KFI	Korea Fire Safety Certification	
	CE(EMC)	European Electromagnetic Certification	
	-	Thailand Ministry of Energy Certification	
	CPA	China Measuring Instrument Certification	