Explosion Proof Type interference gas filtering Gas Detector

GTD-5100F



Features

- Detect combustible gas, toxic gas, freon and VOCs.
- 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.
- Explosion-proof structure ensure the prevention of the secondary explosion.
- A monitoring system can be built using 4-20 mA, RS-485, or PoE communication protocols.
- Equipped with relay contacts for enhanced operational control.

Accessories











Micro filter

Mounting bracket Cable gland

Male connector

RS-485 Module

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	02	*	< 15sec / 90% scale
Electrochemical cell	02	*	< 15sec / 90% scale
	Toxic gas	*	< 45sec (Default) / < 60sec (O3) < 70sec (HCI) / < 100sec (HF)
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, Alarm setting)			
Operation mode display	GTD-5100F: Alarm / Trouble LED flow rate LED indicator (Power, 2-Stage alarm, 1-Trouble) GTD-5100F LCD Version: 2.0" Color TFT LCD (Detector status, Gas info, Error code etc.) LED indicator (Power, 2-Stage alarm, 1-Trouble)			
Measuring value display	GTD-5100F: FND display (4-Digit) GTD-5100F LCD Version: 2.0" Color TFT LCD (Gas value, Flow rate etc.)			
Alarm signal output	3.5A@30VDC, 3.5A@125VAC (Resistive load) / 3-SPST 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	Standard: PF 3/4" Option: NPT 3/4" M25 PF 1/2" NPT 1/2" M20 (With Explosion proof reducer)			
Mounting type	Wall mount			
Operating temperature	-10 ~ 60℃			
Operating humidity	5 ~ 99% RH (Non-condensing)			
Dimensions	200(w) × 161(H) × 139(D) mm			
Weight	4kg			
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 db IIC T6/T5 Gb
	ATEX	European Explosion Proof Certification	Ex db IIC T6/T5 Gb
	NEPSI	China Explosion Proof Certification	Ex db IIC T5/T6 Gb
	UL	U.S. Explosion Proof Certification	Class I, Division 1, Groups A,B,C,D
	TS	Taiwan Explosion Proof Certification	Ex db IIC T6/T5
Other Certifications	КС	Korea Electromagnetic Certification	
	CE(EMC)	European Electromagnetic Certification	
	-	Thailand Ministry of Energy Certification	-
	СРА	China Measuring Instrument Certification	
	KFI	Korea Fire Safety Certification	<u> </u>