GASTRON

Flame Proof Type Sampling Flammable Gas Detector

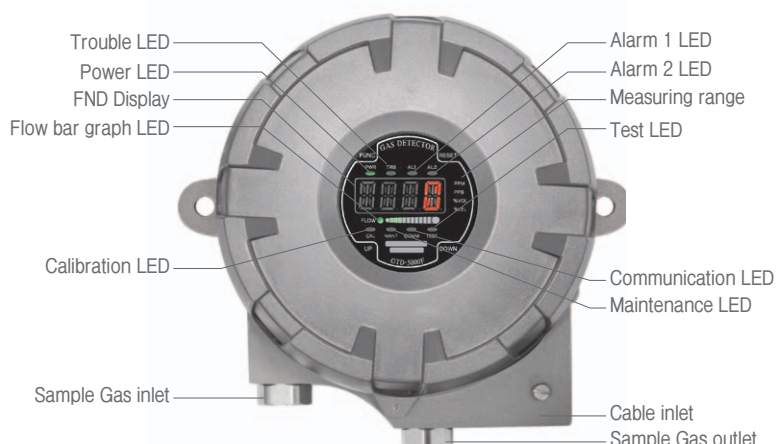## GTD-5000F Ex

Feature

▷ Continuous detection of flammable gases in explosion hazardous area with flame proof structure

▷ Self diagnosis function with built-in Microprocessor

▷ Easy replacement with a cartridge type sensor

▷ Digital flow sensor to maintain regular flow rate

▷ Fast response of VOC gas leakage with a high efficient pump inside

▷ Detection gas from low to high concentration owing to various detection principle

▷ Stable quality and proved detection principle for service life

▷ Auto calibration and program setting with a magnet bar

▷ 4-digit digital gas concentration display

▷ 4-20mA DC output signal

▷ Easy configuration of monitoring system by RS-485 Modbus isolated
serial data communication(Option)

▷ 3-wire connection for signal & power

▷ 2-stage alarm, 1-trouble display and relay contact output
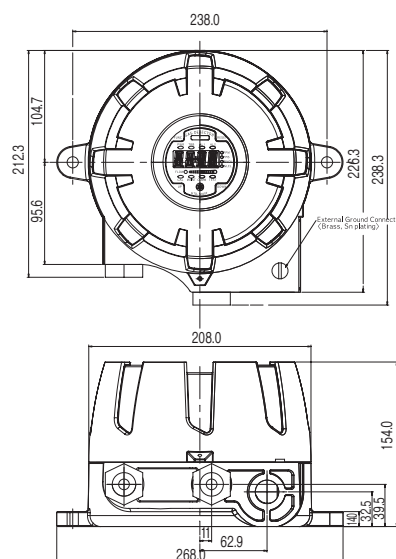
▷ Calibration and maintenance by one-man

Flame Proof
Auto Flow Control

General

- Trouble LED
- Power LED
- FND Display
- Flow bar graph LED
- Calibration LED
- Sample Gas inlet

- Alarm 1 LED
- Alarm 2 LED
- Measuring range
- Test LED
- Communication LED
- Maintenance LED
- Cable inlet
- Sample Gas outlet

Dimension (Unit:mm)

238.0
104.7
212.3
95.6
226.3
238.3
External Ground Connection (Brass, Sn plating)

208.0
154.0
268.0
62.9
11
140
32.5
39.5

Accessories

Cable gland

Male connector

Micro Filter

Specification

※Specifications are subject to be changed without prior notice.

FLAME PROOF TYPE SAMPLING FLAMMABLE GAS DETECTOR		
Model	GTD-5000F Ex		
Measuring gas	Flammable gases (LNG, LPG, H_2, Methane, Butane & etc)		
Measuring type	Auto Sampling type		
Measuring method	Catalytic cell	Hot wire semiconductor cell	Thermal conductivity cell
Measuring range	0~100% LEL	0~2000ppm	0~100% Vol
Response time	< 15sec / 90% scale		
Accuracy	±3% / Full Scale		
Parameter control	Front switch (calibration, maintenance, alarm setting)		
Operation mode display	Alarm / Trouble LED , Flow rate		
Measuring value display	FND Display(4-Digit)		
Alarm signal output	250V 1A / 3-SPST relay contact (2-stage alarm, 1-trouble)		
Output signal	Analog output : 4-20mA DC Digital output : RS-485 Modbus(Option)		
Sampling method	Diaphragm Pump		
Sampling line	OD 1/4 "(Standard)		
Flow rate	0 ~ 2000 ml/min max		
Cable/Distance	Power + Signal cable : 3-wire > 1.5sq(AWG16) / 1000m max 4 - 20mA DC Signal : 2000m RS-485 Modbus Signal : 1000m		
Conduit connection	G. Rc. NPT 1/2" & 3/4" (G 3/4" : Standard)		
Mounting type	Wall mount		
Operating temperature	-20℃ ~ +60 ℃		
Operating humidity	5 to 99% RH (Non-condensing)		
Operating power	Standard : 18 ~31V DC (24V DC normal) / 150mA max		
Material	ALDC		
Dimensions	226.3(W) × 154(H) × 238(D) mm		
Weight	5kg		
Approval	Explosion proof type (Ex d IIC T6, IP65) KCs		

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