

TOTAL SOLUTION FOR GAS DETECTION SYSTEM

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GTD-5000 Series

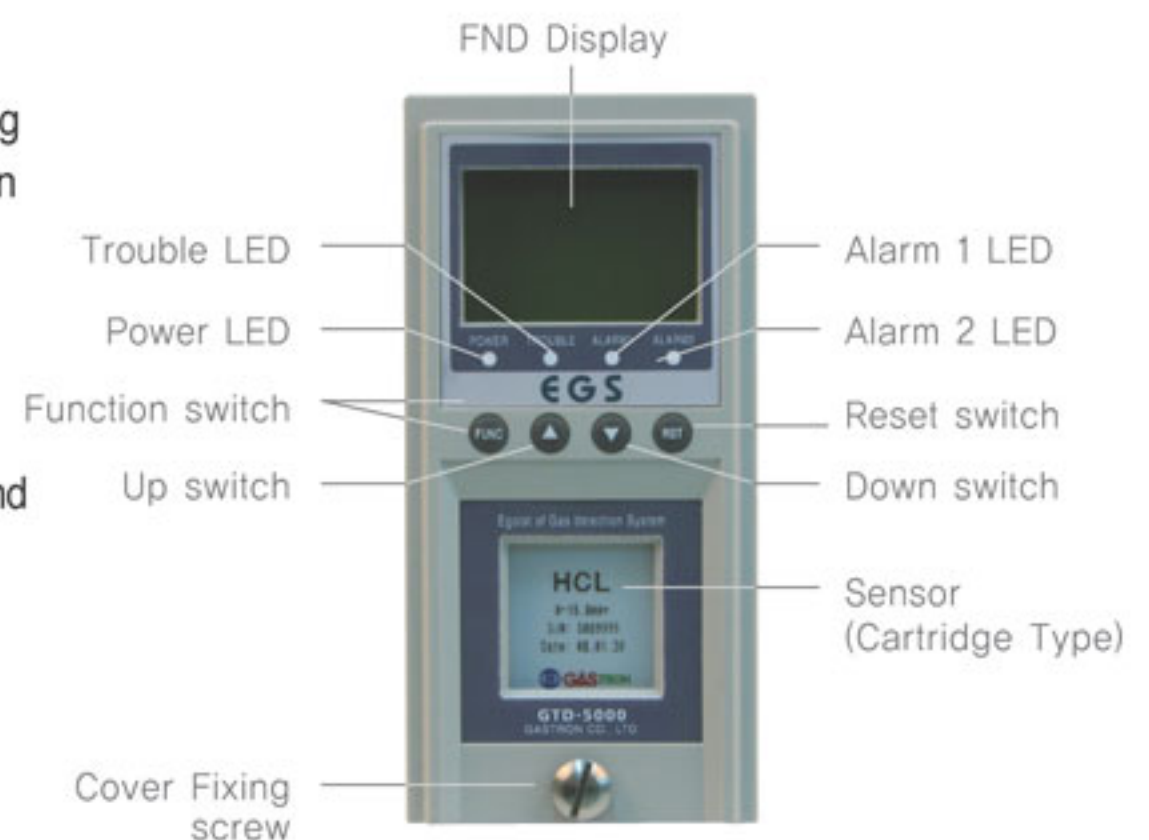
SMART & AUTO SUCTION TYPE GAS DETECTOR



- Rapid detection of gas leakage with high efficient pump inside
- Easy replacement with cartridge type sensor fitting
- Digital flow sensor to maintain regular flow rate
- Detection of combustible, oxygen & toxic gas from low to high concentration owing to various detection principle
- Stable quality and proved detection principle for service life
- Excellent selectivity by adapting detection principle only for oxygen & toxic gas
- Superior performance for detecting gas below TLV
- Easy configuration of monitoring system with RS-485 Modbus(isolated) Serial communication function

GENERAL SPECIFICATION

- GTD-5000 series have high efficient diaphragm pump having long service life and can detect gas leak from low to high concentration
- Sensor replacement is done by cartridge fitting type and sensor has various information to make maintenance easier
- With digital flow sensor, GTD-5000 can automatically maintain regular flow rate at all time.
- It has excellent selectivity to react only with corresponding gas and minimizes malfunctioning due to interfering gas
- Also it shows excellent performance for detecting very low gas concentration (below TLV)
- Detected gas concentration can be checked from digital display and calibration is performed by front switch with checking of gas concentration
- It produces 2 stages alarm and Trouble output to interlock with other devices (gas shut-off valve, beacon or venting FAN) when alarm is occurred.
- It has guaranteed reliability and minimized influences of temperature, pressure, humidity and electrical noise.
- Analog output (4-20mA DC) and RS-485 Modbus (isolated) digital output can be delivered to controller, DCS & PLC and gas monitoring system
- It is 3 wire type and installation is easier than existing products (5~6 wire type) with low cost
- There are various accessories for onsite condition (Optional item) (ex: Dust filter)



Cartridge Type Sensors

[Accessories]



Dust filter

DATA SHEET

SMART & AUTO SAMPLING TYPE COMB. OXYGEN & TOXIC GAS DETECTOR

Model	GTD-5000 Series	
Measuring gas	Combustible gas (LNG, LPG, H ₂ , Methane, Buthane & etc)	Toxic gas (O ₂ , CO, CL ₂ , NH ₃ & etc)
Measuring type	Auto sampling type	
Measuring method	Hot wire semiconductor cell, Catalytic cell, Thermal conductivity cell	semiconductor cell, Electrochemical cell
Measuring range	0~2000ppm, 0~100% LEL, 0~100% Vol	Refer to Ordering information (28 Page)
Response time	< 15sec / 90% scale	< 40sec / 90% scale
Accuracy	±3% / Full scale	
Parameter control	Frint switch (calibration, maintenance, alarm setting & etc)	
Operation mode display	4-LED (Power, 2-Alarm, 1-Trouble)	
Measuring value display	FND display (4-digit)	
Alarm signal output	250V. 1A / 3-SPST Relay contact (2-Alarm, 1-Trouble)	
Output signal	Analog output : 4-20 mA DC Digital output : RS-485 Modbus (option)	
Sampling method	Diaphragm Pump	
Sampling line	OD 1/4" (standard)	
Flow rate	0~1000ml/min max.	
Cable / Distance	Power + signal cable : 3 wire (Above CVVSB 1.5sq) / 2,500m max. RS-485 data communication cable : 1par (UL2919 RS-485) / 1,000m max.	
Conduit connection	Cable gland (PG-16)	
Mounting type	2" Pole mount, Wall mount	
Operating temperature	-20°C ~ +50°C	
Operating humidity	5 ~ 99%.RH (non-condensing)	
Operating power	18 ~ 31V DC (24V DC normal) / 250mA max. AC 110/220V(Option)	
Dimensions	70 x 172 x 158.5 (W X H X D)	
Weight	1.5kg	
Approval	CE	

GTD-5000

※ Specifications are subject to change without prior notice

DIMENSION (unit : mm)

