

# TOTAL SOLUTION FOR GAS DETECTION SYSTEM

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## GTD-300Ex Series

SMART TYPE & LOCAL DISPLAY TYPE



- Continuous detection of combustible gas in explosion hazardous area with flame proof structure
- Self diagnosis function with built-in Microprocessor
- Detection of combustible gas from low to high concentration owing to various detection principle
- Stable quality and proved detection principle for service life
- Built-in Back light LCD display
- Auto calibration and program setting with magnet bar and ICD display
- 2 stages Alarm, 1 Trouble display and really output
- 4-20mA DC output signal
- RS-485 Modbus communication. Easy configuration of monitoring by Serial data communication
- Calibration and maintenance by one person

### GENERAL

- GTD-300Ex has flame proof structure and can be installed in explosion hazardous area, explosive gas might be present in, and continuously detects combustible gas
- Detection principles are catalytic combustion, thermal conductivity and semiconductor type and can detect combustible gas from low to high concentration
- It has very stable performance because it uses proved detection principle for service life
- It has 4 LEDs and built-in back light LCD (2 X 16 characters)  
Operating status and gas density can be checked from the display
- User can set programs (calibration, maintenance and alarm) with magnetic bar and LCD display
- It produces 2-alarm and Trouble output (SPST relay contact) to interlock with other devices (gas shut-off valve, beacon and 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
- There are various accessories for each onsite condition (Optional item)



### [Special application]



### [Accessories]





## SPECIFICATION

### SMART & LOCAL DISPLAY TYPE COMBUSTIBLE GAS DETECTOR

Model	GTD-300Ex		
Measuring gas	Combustible gas (LNG, LPG, H <sub>2</sub> , Methane, Butane & etc)		
Measuring type	Diffusion type		
Measuring method	Hot wire semiconductor cell	Catalytic cell	Thermal conductivity cell
Measuring range	0-2000ppm	0-100% LEL	0-100% Volume
Response time	<15sec / 90% scale		
Accuracy	±3% / Full scale		
Parameter control	Non intrusive control with Magnet bar (calibration, maintenance, alarm setting)		
Operation mode display	4-LED (Power, 2-Alarm, 1-Trouble)		
Measuring value display	LCD display (Built in Back light 2-Line, 16 characters)		
Alarm signal output	250V 1A / 3-SPST Relay contact (2-Alarm, 1-Trouble)		
Output signal	Analog output : Measuring signal : 4-20 mA DC Maintenance signal : 3mA DC Calibration signal : 2 mA DC Fault signal : 0 mA DC Digital output : RS-485 Modbus (Option)		
Cable/Distance	Power + signal cable : 3 wire (above CVVS 1.5sq) / 2,500m max. RS-485 data communication cable : 1par (UL2919 RS-485) / 1,000m max.		
Conduit connection	1/2" & 3/4" PF, NPT (3/4" : standard)		
Mounting type	2" Pole mount, Wall mount, Duct mount		
Operating temperature	-20°C ~ +50°C		
Operating humidity	5 ~ 99%.RH (non-condensing)		
Operating power	18 ~ 31V DC (24V DC normal) / 250mA max.		
Dimensions	152 x 168.5 x 109 (W X H X D)		
Weight	2.1kg		
Approval	Flame proof type (Ex d IIC T6)		

※ Specifications are subject to change without prior notice.

## DIMENSION (unit : mm)

