

Fixed Multi- Gas Detector

PT-GD1000



1 Product description:

PT-GD1000 fixed gas detector can be installed in an explosive hazardous environment to provide continuous, always-on monitoring for combustible gas, oxygen and toxic gases. It detects and transforms gas concentration into 4mA ~ 20mA current signal, transmit to the controller located in the safe area to achieve the purpose of monitoring the concentration of the field gas.

TOXIC/FLAMMABLE GAS DETECTION

2 Features and benefits:

- ✦ Product customized: with or without field gas concentration display, with or without sound and light alarm
- ✦ Multi- gases available by changing the different gas sensors
- ✦ Calibration of Gas sensor is field free
- ✦ Continuously real -time gas concentration display in the OLED screen
- ✦ Infrared remote control adjustment
- ✦ Wide operating voltage
- ✦ Equipped with alarm relay and fault relay output
- ✦ 4 ~ 20mA signal line disconnected, the detector will display failure

3 Gas types and measurement range:

No	Gas types	Measurement range
1	Carbon monoxide	(0~1000) $\mu\text{mol/mol}$
2	Hydrogen sulfide	(0~100) $\mu\text{mol/mol}$
3	hydrogen	(0~1000) $\times 10^{-6}$
4	Sulfur dioxide	(0~100) $\times 10^{-6}$
5	Ammonia	(0~100) $\times 10^{-6}$
6	Chlorine gas	(0~50) $\times 10^{-6}$
7	Hydrocyanic acid	(0~50) $\times 10^{-6}$
8	oxygen	(0~30.0) %
9	Nitrogen dioxide	(0~100) $\times 10^{-6}$
10	flammable gas	(0~100) %LEL
11	Phosphine	(0~10) $\times 10^{-6}$
12	Nitric oxide	(0~100) $\times 10^{-6}$

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4 Technical parameters:

Operating voltage range	10 ~ 30V DC
Working current	≤ 40mA (combustible gas, without display module and sound and light alarm module)
	≤ 20mA (toxic gas, no display module sound and light alarm module)
	Display module operating current: ≤ 10mA
	Sound and light alarm module operating current: ≤ 20mA
Sensor type	Combustible gas: catalytic combustion
	Oxygen: Galvanian Battery
	Toxic gas: electrochemical
Detection mode	Detection mode diffusion type
Response time	Response time gas: T90 <60s
	Oxygen: T90 <60s
	Toxic gas: General T90 <60s
Indication error	Carbon monoxide: ± 10%
	Hydrogen sulfide: ± 5% FS
	Combustible gas: ± 5% FS
	Oxygen: Soil 3.0% FS
	Other toxic gases: ± 10% (display) or ± 5% (full scale) within, take large
Operating temperature	-20 °C ~ 40 °C
Operating humidity	15% -95%, do not condensation
Storage temperature	-20 °C ~ 60 °C
Storage humidity	≤ 90%, no condensation
Remote control distance	5 meters
Operating angle	± 15 degrees
Audio decibels	90dB / m
Protection class	IP65
Shell material	Aluminum alloy, 316 stainless steel, explosion-proof glass
Dimensions	Dimensions 182mm × 120mm × 115mm
Weight	1560g