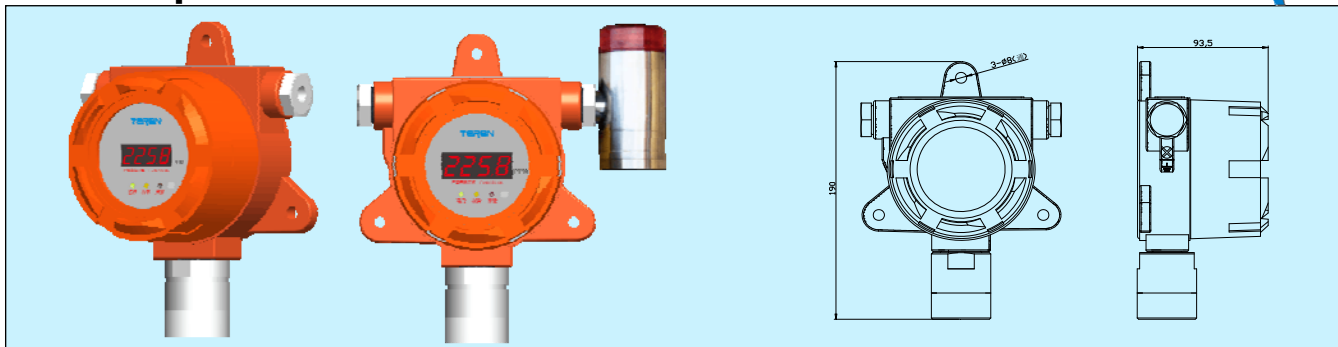


G3Ex Explosion Proof Gas Detector



Applications & Features

- Industrial die cast aluminum explosion proof housing, with the sensor module placed in a separated metal probe chamber, ensure electrically isolated from the housing
- Moisture and corrosion resistant, IP66 protection rate, can be used in various harsh and hazardous environments
- Professional high sensitivity gas sensors, stable signal, high precision, wide measuring range and good linearity
- State of art housing, easy installation
- Modular sensor assembly, easy replacement and maintenance
- Optional explosion proof audible & visual alarm and remote controller
- Meet explosion proof standards GB 3836.1-2010 and GB 3836.2-2010 with certificate Ex d IIC T6 Gb. Apply for zone 1&2 hazardous area where there are explosive mixtures of IIA, IIB, IIC, T1-T6 combustible gas, vapor and air

Specifications

Gases and specifications: see the table below

Power: 18~30VDC

Output: 0~10V, 4~20mA (3 wires), RS485/Modbus

Relay: SPST, 3A/30VDC

Load: $\geq 2k\Omega$ (0-10V), $\leq 500\Omega$ (4-20mA)

Display: LED digital display, power/fault/alarm LED indicator

Operating condition: combustible gas -40~70°C, toxic gas

-20~55°C, 10~95%RH(Non-cond.), pressure 86~106kPa

Housing: die cast aluminum housing, SS probe and SS sintered mesh filter

Protection: IP66

Agency Approvals: Ex d IIC T6 Gb, ATEX (2014/34/EU), EMC(2014/30/EU,EN50270),CMC Metrological Certificate

Weight: 1.4kg

Explosion proof audible & visual alarm: model ASG24VDC, sound intensity $\geq 90dB@0.1m$, light intensity 1800~2400mcd, to be ordered separately

Intrinsically safe infrared remote controller: model FYF3, for field programming, to be ordered separately

General infrared remote controller: model YK-0, for safe zone programming, to be ordered separately

Models

Model	G3Ex		Ex-proof Gas Detector
Gas Type & Range		1	O ₂ , 0~30% VOL
		2	H ₂ S, 0~100 μ mol/mol
		3	CH ₄ , 0~100%LEL
		4	CO, 0~100 μ mol/mol
		5	CO, 0~500 μ mol/mol
		6	CO, 0~1000 μ mol/mol
		7	NO ₂ , 0~20 ppm
		8	Combustible, 0~100% LEL
		9	Other
Output		1	0~10V
		2	4~20mA(3 wires)
		8	RS485/Modbus
Relay Output		0	NA
		1	1×SPST,3A/30VDC

Detected Gases and Specifications

Code	GAS	Sensor type	Range	Accuracy	Repeatability	Response time	Sensor Life*	Remark
1	O ₂	Electrochemical	0-30%VOL	0.7%VOL	1%	60S	2-3year*	Resolution 0.1% VOL
2	H ₂ S	Electrochemical	0-100 μ mol/mol	5 μ mol/mol	2%	60S	2-3year*	Drift \pm 10 ppm/year
3	CH ₄	Catalytic Combustion	0-100%LEL	5%FS	2%	30S	2-3year	LEL:5.0V% Resolution 0.1% LEL
4	CO	Electrochemical	0-100 μ mol/mol	5 μ mol/mol	2%	60S	2-3year*	Resolution 1 μ mol/mol
5	CO	Electrochemical	0-500 μ mol/mol	5 μ mol/mol	2%	60S	2-3year*	Resolution 1 μ mol/mol
6	CO	Electrochemical	0-1000 μ mol/mol	5 μ mol/mol	2%	60S	2-3year*	Resolution 1 μ mol/mol
7	NO ₂	Electrochemical	0-20 ppm	3%FS	2%	60S	2year *	Resolution 0.1 ppm
8	Combustible	Catalytic Combustion	0-100%LEL	5%FS	2%	30S	2-3year	LEL:5.0V%(CH ₄) Resolution 0.1% LEL

*1: @23 \pm 3°C, 40 \pm 10%RH