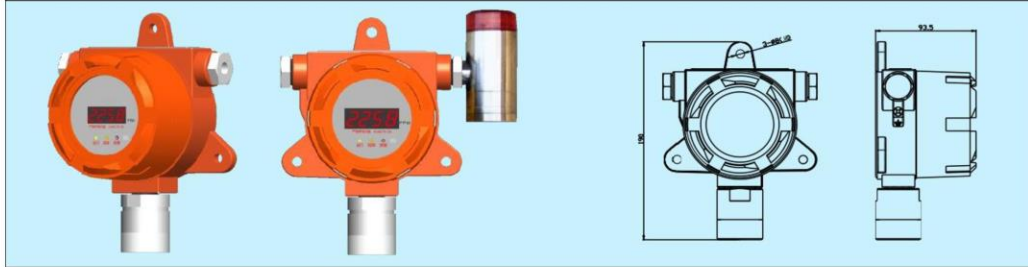


## G3Ex Explosion Proof Combustible/Toxic Gas Detector



### 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 Combustible/Toxic Gas Detector
Gas Type & Range		1	O <sub>2</sub> , 0~30% VOL
		2	H <sub>2</sub> S, 0~100 $\mu$ mol/mol
		3	CH <sub>4</sub> , 0~100%LEL
		4	CO, 0~100 $\mu$ mol/mol
		5	CO, 0~500 $\mu$ mol/mol
		6	CO, 0~1000 $\mu$ mol/mol
		7	NO <sub>2</sub> , 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 <sub>2</sub>	Electrochemical	0-30%VOL	0.7%VOL	1%	60S	2-3year*	Resolution 0.1% VOL
2	H <sub>2</sub> S	Electrochemical	0-100 $\mu$ mol/mol	5 $\mu$ mol/mol	2%	60S	2-3year*	Drift<+/-10 ppm/year
3	CH <sub>4</sub>	Catalytic Combustion	0-100%LEL	5%FS	2%	30S	2-3year	LEL:5.0V% Resolution 0.1% LEL
4	CO	Electrochemical	0-100 $\mu$ mol/mol	5 $\mu$ mol/mol	2%	60S	2-3year*	Resolution 1 $\mu$ mol/mol
5	CO	Electrochemical	0-500 $\mu$ mol/mol	5 $\mu$ mol/mol	2%	60S	2-3year*	Resolution 1 $\mu$ mol/mol
6	CO	Electrochemical	0-1000 $\mu$ mol/mol	5 $\mu$ mol/mol	2%	60S	2-3year*	Resolution 1 $\mu$ mol/mol
7	NO <sub>2</sub>	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 <sub>4</sub> ) Resolution 0.1% LEL

\*1: @23±3°C, 40±10%RH

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