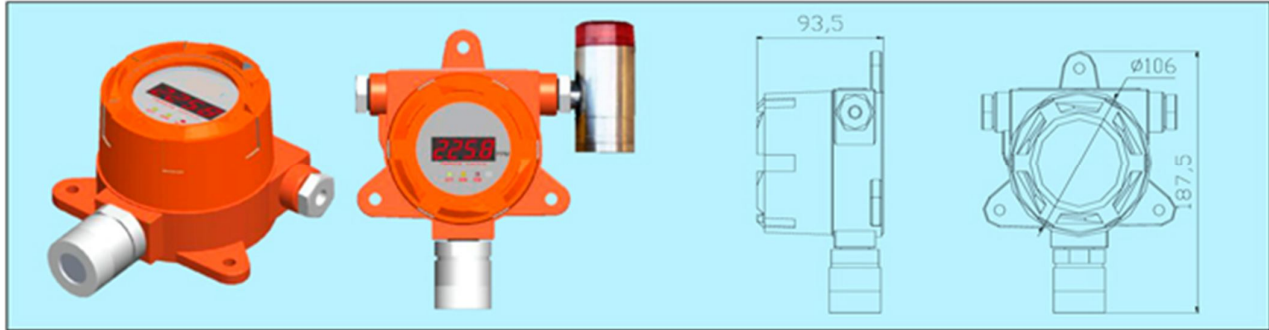


RSA-DG3EX Explosion proof Gas Detector



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
- Made to meet Explosion Proof standards GB 3836.1-2010 and GB 3836.2-2010 with certificate Ex d IIC T6 Gb. Suitable for Zone 1 & 2 hazardous areas where there are explosive mixtures of IIA, IIB, IIC, T1-T6 combustible gas, vapor and air

Specifications

Gases: 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

Alarm: audible & visual, $\geq 90dB@0.1m$, 1800~2400mcd

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 filter

Protection: IP66

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

Weight: 1.2-1.5kg

Models

Model	RSA-DG3EX			Ex-proof Gas Detector
Gas Type & Range		1		O ₂ , 0~30% VOL
		2		H ₂ S, 0~100 ppm
		3		CH ₄ , 0~100%LEL
		4		CO, 0~100 ppm
		5		CO, 0~500 ppm
		6		CO, 0~1000 ppm
		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
		2		1xSPST
Alarm		0		NA
		1		Audible & Visual Alarm

Detected Gases and Specifications

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

*: @23±3°C, 40±10%RH