

Fixed Gas Detector



SG100-X

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Product overview

SG100-X series is a cost-effective gas detector for continuous monitoring of toxic gases, oxygen, flammable, VOC gases. It is IECEX, ATEX certified, with intrinsically safe explosion grade. Having a 2 wire or 3 wire 4 to 20 mA analog output, RS485 modbus output, optional HART output, making it to be compatible with most control systems. With optional wireless data transmission, customer is able to review, download the data remotely. Support both magnetic and remote control, flexible for setting.



Product Feature

- IP66/IP68 water & dust resistant
- Intelligent plug and play sensor module. the module support calibration by Safegas PC software, making replacement and maintenance easier.
- With standard splash guard to protect sensor for outdoor installation or environment with water splash.
- Small and light, weight is only 1 kg, and the detector comes with standard mounting bracket, easy for installation.
- Standard 4-20 mA analog signal output and RS485 modbus signal output, optional Hart output, 2 wire output. Compatible with most of control systems.
- The detector comes with 3 relays, including low/high/fault alarm relay (Optional)
- Support both magnetic and remote control, flexible for setting.
- Standard mounting bracket for quick site installation.



Technical parameters

Gas Detected:	Toxic gases, oxygen, flammable, VOC gases
Detection Principle:	Electrochemical, NDIR, Catalytic, PID, etc
Measure range:	Specified according to application
Resolution:	Specified according to application
Accuracy:	$\leq \pm 2-5\%FS$ (Depending on the specific sensor)
Explosion-proof grade:	IECEX: Ex db IIC T6 Gb, Ex db ia IIC T6 Gb ; ATEX: Ex db IIC T6 Gb, Ex db ia IIC T6 Gb
Protection grade:	IP66/68
Power dissipation:	Toxic gas<2.5W, flammable gas<4W
Communication mode:	4-20mA(3-wires)、RS485 1~5V, Hart(Optional)
Wireless:	LORA, 4G(Optional)
Working voltage:	12-24VDC
Relay:	3 relays, including low/high/fault alarm relay (Optional)
Display:	LED display
Working temperature:	-40°C ~ 70°C (Catalytic sensor) , -20°C ~ 50°C (Electrochemistry sensor)
Working pressure:	86kPa~106kPa
Enclosure material:	Die casting aluminum, SS316 stainless steel for option
Cable Entries	Standard 3/4 NPT(Leftside) & M20 (Right side)
Size:	157.8x128.8x69.6mm
Weight:	1.0Kg
Warranty:	1 year