

# Fixed Gas Detector

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## SG100-WH

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#### Product overview

SG100-WH series is a cost-effective and intrinsically safe gas detector for the continuous monitoring of toxic gases, oxygen, flammable gases. With IECEX, ATEX certificates, explosion level reaches Ex db IIC T6 GB/Ex db ia IIC T6 GB/Ex da db ia IIC T6 GB. Having a 3-wire 4 to 20 mA analog output with relays, it also offers HART, RS485 Modbus protocol, making it compatible with most control systems. With optional wireless function, no need wires to save the labor cost and realize the transmission without limits. Adopt magnetic wand design, it's safe and easy to do menu navigation in explosion areas. It is also an intelligent hot swappable fixed gas detector, which is easy for maintenance after installation.



SG100-WH with display    SG100-WH with display and alarm

#### Product Advantage

- IP66/IP67 water & dust resistant
- Module chamber design, no need to disassemble of the whole machine or return for calibration when maintenance, just replace the sensor chamber only and can work properly
- One-person calibration is easily performed using calibration cap
- Body weight is only 1 kg, easy to install by one-person
- Quick site installation using a mounting plate accessory
- Standard 4-20 mA current signal, RS485 Modbus, 1 set of relay signal output
- Optional with 2 sets of relay signals, voltage 1~5V
- Optional HART digital communication provides configuration
- Optional wireless transmission modes can be selected



#### Technical parameters

<b>Gas Detected:</b>	O2, N2, CO2, EX, hazardous gas, voc, etc
<b>Detection Principle:</b>	Electrochemical, infrared ray, catalytic combustion, PID photo ionization, etc
<b>Measure range:</b>	Specified according to application
<b>Resolution:</b>	Specified according to application
<b>Accuracy:</b>	≤ ±2-5%FS (Depending on the specific sensor)
<b>Explosion-proof grade:</b>	IECEX: Ex db IIC T6 Gb, Ex db ia IIC T6 Gb ; ATEX: Ex db IIC T6 Gb, Ex db ia IIC T6 Gb
<b>Protection grade:</b>	IP66/67
<b>Power dissipation:</b>	toxic gas<2.5W, flammable gas<4W
<b>Communication mode:</b>	4-20mA(3-wires)、RS485 1~5V, Hart(Optional)
<b>Wireless:</b>	LORA、GPRS/4G(Optional)
<b>Working voltage:</b>	12-24VDC
<b>Contact capacity:</b>	standard with 1 set of relay signals, optional with 2 sets of relay signals
<b>Display:</b>	LED display
<b>Working temperature:</b>	-40℃ ~ 70℃ (Catalytic sensor) , -20℃ ~ 50℃ (Electrochemistry sensor)
<b>Working pressure:</b>	86kPa~106kPa
<b>Housing material:</b>	Die casting aluminum
<b>Electrical interface:</b>	standard internal screw thread M20 * 1.5, optional 1/2NPT internal thread, G3/4, G1/2, 3/4NPT
<b>Size:</b>	157.8x128.8x69.6mm
<b>Weight:</b>	about 1.0Kg