

SG100-D MULTI 2 IN 1 ONLINE GAS DETECTOR

Product Model: SG100-D



SG 100-D series is an intelligent hot swappable fixed multi gas detector, which is easy for maintenance after installation. It can monitor 2 gases for the continuous monitoring in one unit. With IECEx, ATEX certificates, explosion level reaches Ex db IIC T6 intrinsically safe grade. Adopt magnetic wand design, it's safe and easy to do menu navigation in explosion areas.

High accuracy & Reliable

Specialized in gas detection for 15 years, using world first brand sensors, high precision, the detection result is approved by the third testing organization

Modular gas chamber for maintenance simply and conveniently

Modular air chamber structure, no need to disassemble the whole machine, only need to replace the air chamber part

No need to return to the factory calibration, the real implementation of plug and play

Two-key magnetic bar design, no need to open the cover, to achieve on-site maintenance and operation of the detector in any explosion-proof area

Online monitoring

24h continuously monitoring, data will real-time display

Class ia intrinsic safety explosion-proof circuit design, safe and reliable

At the same time, the instrument has obtained international IECEx, ATEX and China explosion-proof three certifications

Explosion-proof class up to Ex db IIC T6 Gb /Ex db ia IIC T6 Gb /Ex da db ia IIC T6 Gb

The protection level reaches IP66/IP67

Compact appearance, simple and user-friendly installation

The whole machine weighs 1.4kg and is easy to install

Simple and convenient installation, complete accessories, only need to be fixed after wiring, can be used normally

Variety of installation methods

Wall mounted type, installed on the wall directly, real time monitoring

Piping type, installed on the pipeline, monitoring the gas concentration inside

Flow type, connected with external sampling pump and tube, measure the gas concentration in enclosed space

Data transmission diversity

Standard 4-20mA current signal, RS485 digital signal, 1 set of relay signal output

Optional 2 groups of relay signals, voltage 1 ~ 5V, standard Hart

Optional LORA, 4G and other wireless transmission methods (optional)

Data transmission connection

Can be installed with computer software, to transmit the data to computer, workers can remote monitor the data

High quality case

Die-cast aluminum case, strong and durable; Stainless steel case is available for choose, meeting the demand of different situations

IP66/67 protection degree, water-proof, dust-proof, explosion-proof

Industry Application

Furniture, Floor, Wallpaper, Coating, Gardening, Interior Decoration and Renovation, Dyestuff, Papermaking, Pharmacy, Health Care, Foodstuff, Antiseptic.

Disinfection, Chemical Fertilizer, Resin, Adhesive, Pesticide, Raw Material, Sample, Technological Process,

Livestock Farm, Refuse Processing Plant, Perm Place.

Bio-pharmaceutical Plant, Green Household, Livestock Breeding, Green House Cultivating, Warehouse Logistics,

Brewing And Fermentation, Agricultural Production.

Specifications

Detected Gas	Customize 2 gases
Measure Range	To be specialized
Install Method	Wall-mounted, piping type, flow-type
Response time	T90<60s (Depends on sensor)
Precision	≤±2%FS or ±10% (Depends on sensor)
Repeatability	±2%F.S

Power consumption	Toxic gas<2.5W, flammable gas<4W
Communication mode	Standard : 1set of 4-20mA(3 wires)、RS485、2 sets of relay (30V, 2A) ; Optional : 4 sets of 4-20mA (3 wires)
Wireless	LORA,4G(Optional)
Display	1.21-inch OLED, Resolution:160 * 64
Explosion-Proof	IECEX : Ex db IIC T6 Gb, Ex db ia IIC T6 Gb ; ATEX : Ex db IIC T6 Gb, Ex db ia IIC T6 Gb
Working humidity	10%~95%RH(No condensation)
Working pressure	91kPa~111kPa
Working temperature	-40℃~70℃ (catalytic sensor) , -20℃~50℃ (Electrochemistry sensor)
Housing material	Die casting aluminum
Electrical interface	Standard NPT3/4, optional internal thread M2 0 * 1.5, 1/2NPT internal thread, G3/4, G1/2
Events	1000 sets per channel, can download by GPC
Approval	CE, CNEX explosion proof certificate, CMC(China Metrology Certification), IECEx, ATEX
Size	178x129x90mm
Weight	1.4kg (No mounting bracket ,alarm light) m