

# QS-1000

## Fixed Gas Detector

### Brief Introduction



QS-1000 is a high performance intelligent toxic gas detection alarm which imported brand gas sensor, high performance, supply couples of types of gas detection, low power microprocessor to ensure product performance and stability, real-time monitoring of the concentration of toxic gas. Mainly used in petroleum chemical industry, metallurgy, mining, fire, gas, environmental protection, electric power, communication, papermaking, printing and dyeing, food reserves, city water supply, sewage treatment, food, brewing, research, education, national defense and other places.

### Product features

- Modular structure, convenient maintenance, simple wiring installation
- Smart sensor platform, but plug and play, without calibration
- Fast response, high measurement accuracy and the running stability of the testing instrument
- Rich sensor range selection, can meet the requirements of customers
- Three kind of signal output, RS485 and 4~20mA (three wire) digital / analog signal and switch at the same time. Big screen segment type LCD real-time display gas concentration.
- Gas concentration unit optional (such as ppm, mg/m3), it have the instrument status, fault and communication abnormality prompt function.
- It can be set high and low alarm point, two level sound and light alarm.
- Two relay to control peripheral devices (such as the action of machine and sound and light alarm).

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- Round casting stainless steel housing is suitable for offshore platforms, as well as high temperature, high humidity and other harsh environments.
- Good sealing, anti-corrosion, explosion-proof and anti EMI, RFI function.
- Supporting use of our company 's series alarm host.
- European design standards.
- The flame-proof and safety design,EXD II CT6 Gb, IP65

### Parameters

Measured gas	Flammable gas、Toxic gas、Oxygen gas 、VOC		
Sensor Type	Electrochemical/infrared NDIR/catalytic combustion/PID		
Sampling way	Diffusion, pump (pipeline)		
Range	0-10ppm、0-100ppm、0-1000ppm、0-10000ppm (Range of optional, can be customized)		
Resolution	0.001ppm、0.01、0.1ppm、1ppm		
Electrical interface(thread)	M20*1.5, or G3/4、G1/2、1/2NPT、3/4NPT		
Response time	T90<30s	Display	LCD display real-time concentration, light emitting diode, buzzer alarm
Power	12~24VDC	Smart platform	Yes
Repeat	≤±2%	The linear error	≤±1%
Zero drift	≤±1% (F.S/Y)	Accuracy	≤± 3 % F.S.
Signal output	RS485、4-20mA、Two sets of relay output	Pressure range	860-1060hpa
Operating temperature	-40℃~70℃	The power consumption	<2.0W
Explosion-proof grade	Exd II CT6 Gb	Work humidity	0-95%RH(no condensing)
Sound and light alarm	OPTIONAL	Protection grade	IP65
Size	195mm*178mm*90mm (MAX)	Capacity	0.5A/125VAC or 1A/30VDC
Life for sensor	See date of sensor	Weight	1.2kg (Cast aluminum)
Execution standard	GB12358-2006,GB3836.1-2010		
	GB3836.2-2010,GB3836.4-2010		

## Lectotype table

Model	Detected gas	Range	Measurement principle
QS-1000-CO	Carbon monoxide	0-200/1000ppm	Electrochemical
QS-1000-CO-A	Carbon monoxide (H2)	0-200/1000ppm	Electrochemical
QS-1000-H2S	Hydrogen sulfide	0-50/100/200/1000/5000ppm	Electrochemical
QS-1000-O2	Oxygen	0-25%vol	Electrochemical
QS-1000-NO2	Nitrogen Dioxide	0-20/500ppm	Electrochemical
QS-1000-NO	Nitric Oxide	0-100/1000ppm	Electrochemical
QS-1000-SO2	Sulfur Dioxide	0-20/100/2000ppm	Electrochemical
QS-1000-CL2	Chlorine	0-20/200/2000ppm	Electrochemical
QS-1000-NH3	Ammonia	0-100/1000/5000ppm	Electrochemical
QS-1000-H2	Hydrogen	0-1000/10000/40000ppm	Electrochemical
QS-1000-H2-A	Hydrogen (CO)	0-1000ppm	Electrochemical
QS-1000-PH3	Phosphine	0-5/20/1000ppm	Electrochemical
QS-1000-CH2O	Formaldehyde	0-10/50/1000ppm	Electrochemical
QS-1000-O3	Ozone	0-5/20/100/1000ppm	Electrochemical
QS-1000-F2	Fluorine	0-1ppm	Electrochemical
QS-1000-HF	Hydrogen fluoride	0-10ppm	Electrochemical
QS-1000-HCL	Hydrogen chloride	0-20/200/1000ppm	Electrochemical
QS-1000-HBr	Hydrogen bromide	0-20/200/1000ppm	Electrochemical
QS-1000-C2H4O	Ethylene oxide	0-20/100ppm	Electrochemical
QS-1000-C4H8S	Tetrahydrothiophene	0-1000ppm	Electrochemical
QS-1000-SiH4	Silane	0-50ppm	Electrochemical
QS-1000-ClO2	Chlorine dioxide	0-20/200/2000ppm	Electrochemical
QS-1000-HCN	Hydrogen cyanide	0-100 ppm	Electrochemical
QS-1000-C2H4	Ethylene	0-10/200/1500 ppm	Electrochemical
QS-1000-H2O2	Hydrogen peroxide	0-100/500/2000 ppm	Electrochemical
QS-1000-EX	Combustible EX	0-100%LEL	catalytic combustion
QS-1000-CO2	carbon dioxide	0-2000/5000ppm/1%/5%/20%/50%/100%VOL	infrared NDIR
QS-1000-SF6	Sulfur hexafluoride	0-1000/2000/3000ppm	infrared NDIR
QS-1000-CH4	Methane	0-5%/10%/20%/50%/100%VOL	infrared NDIR
QS-1000-VOC	Volatile organic compound	0-20/200/2000/10000 ppm	PID

★ If you need other range or other special gases selection, please consult the sales engineer

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