

Energom-3006

Fixed Freon Gas Detector

Brief Introduction



The fixed infrared Freon refrigerant gas detector is suitable for continuous online detection of Freon refrigerant gas concentration in various industrial environments and special environments. The instrument adopts high-precision infrared NDIR gas sensor and microcontroller technology, with stable signal, high precision, good repeatability, and explosion-proof wiring mode suitable for various hazardous places. The instrument is compatible with various alarm controllers, PLC, DCS and other control systems, and can achieve functions such as remote monitoring, remote alarm, and computer data storage.

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 two relay output at the same time.
- 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).
- 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.
- Adopting explosion-proof and intrinsically safe design
- The flame-proof and safety design,EXD II CT6 Gb, IP65

Parameters

Measured gas	Freon Refrigerant Gas (R125,R134a,R143a,R404a,R410a, R407f,R449a,R417A,R448a,R452b,R407a,R507,R1234ze, R1234yf,R227ea,R32,R22,R113...)		
Sensor Type	NDIR		
Sampling way	Diffusion, pipeline		
Range	0-1000ppm, 0-2000ppm etc		
Resolution	0.1PPM/1PPM		
Electrical interface(thread)	M20*1.5, or G3/4、G1/2、1/2NPT、3/4NPT		
Response time	T90<30s	Display	Yes
Power	12~24VDC	Smart platform	Optional
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 (H ₂)	0-200/1000ppm	Electrochemical
QS-1000-H ₂ S	Hydrogen sulfide	0-50/100/200/1000/5000ppm	Electrochemical
QS-1000-O ₂	Oxygen	0-25%vol	Electrochemical
QS-1000-NO ₂	Nitrogen Dioxide	0-20/500ppm	Electrochemical
QS-1000-NO	Nitric Oxide	0-100/1000ppm	Electrochemical
QS-1000-SO ₂	Sulfur Dioxide	0-20/100/2000ppm	Electrochemical
QS-1000-CL ₂	Chlorine	0-20/200/2000ppm	Electrochemical
QS-1000-NH ₃	Ammonia	0-100/1000/5000ppm	Electrochemical
QS-1000-H ₂	Hydrogen	0-1000/10000/40000ppm	Electrochemical
QS-1000-H ₂ -A	Hydrogen (CO)	0-1000ppm	Electrochemical
QS-1000-PH ₃	Phosphine	0-5/20/1000ppm	Electrochemical
QS-1000-CH ₂ O	Formaldehyde	0-10/50/1000ppm	Electrochemical
QS-1000-O ₃	Ozone	0-5/20/100/1000ppm	Electrochemical
QS-1000-F ₂	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-C ₂ H ₄ O	Ethylene oxide	0-20/100ppm	Electrochemical
QS-1000-C ₄ H ₈ S	Tetrahydrothiophene	0-1000ppm	Electrochemical
QS-1000-SiH ₄	Silane	0-50ppm	Electrochemical
QS-1000-CLO ₂	Chlorine dioxide	0-20/200/2000ppm	Electrochemical
QS-1000-HCN	Hydrogen cyanide	0-100 ppm	Electrochemical
QS-1000-C ₂ H ₄	Ethylene	0-10/200/1500 ppm	Electrochemical
QS-1000-H ₂ O ₂	Hydrogen peroxide	0-100/500/2000 ppm	Electrochemical
QS-1000-EX	Combustible EX	0-100%LEL	catalytic combustion
QS-1000-CO ₂	carbon dioxide	0-2000/5000ppm/1%/5%/20 %/50%/100%VOL	infrared NDIR
QS-1000-SF ₆	Sulfur hexafluoride	0-1000/2000/3000ppm	infrared NDIR
QS-1000-CH ₄	Methane	0-5%/10%/20%/50%/100%V OL	infrared NDIR
QS-1000-Freon	Freon Refrigerant Gas	0-1000/2000ppm	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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