Flammable and Toxic Gas Detector

Model: SGD-2000

Features:

SGD-2000 is cutting edge fixed gas detector, to detect wide range of flammable and toxic gases available in Infra-red, catalytic, Electrochemical and PID sensor. It is diffusion type gas detector with high stability, reliability and accuracy in response.
Additional to 4-20 mA output, 2 Alarm relay outputs considered to connect to universal FACPs, F&Gs and PLCs Control Panels.

General Characteristics:

- Infra-red, Catalytic, Electrochemical and PID sensor
- 4-20 mA analog output
- 2 adjustable Alarm level relay contacts
- 1 line, 4 characters LCD display screen
- -20 to +55 C operating temperature
- Stainless steel sensor casing
- Easy Calibration by means of Remote Control
- Aluminum die-cast or Stainless steel casing material
- Normal, Fault and Alarm local LED indication
- Visual alarm rotating LEDs with different frequencies and colors for normal and alarms indication

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Technical Details:

Description	Rating	Description	Rating
Sensor	According to Gas List	Humidity	95 % RH
Measuring type	Diffusion type	Cable Type	3 x 1.5 mm2 for 4-20 mA
Range	According to Gas List	Entry Size	2 x M20
Response time	According to Gas List	Casing Material	Aluminum Die-cast (Option SS 316)
Parameter control	Remote control	Sensor Material	SS 316
Output Signal	4-20 mA standard signal	Dimension	195 x 121 x 95 mm
Relay output	2 adjustable alarm relay 3A-24 VDC/ 3A 125 VAC (Option 1 alarm and fault relay)	Weight	Appx. 1.5 Kg
Power supply	16-30 VDC @ 400 mA max	Ingress Protection (IP)	65
Temperature	-20 to +55 C	Certification	II 2G Ex db IIC T6 Gb ATEX approved

Accesories Ordering Number:

Item	Description	Ordering Code
1	Calibration Cap:	SGD2CC
2	Remote Control:	SGD2RC
3	Sunshade:	SGD2SS
4	Pipe mount 2" U Bolt:	SGD2PM

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Gas List:

Item	Target Gas	Range	Optional Range	Accuracy	Sensor Type	Response time sec
1	Combustible Gas	0-100 %LEL	100 %LEL	<±3%	Catalytic	<10
2	Combustible Gas	0-100 %LEL	100 %VOL	<±3%	IR	<20
3	VOC	0-1000 ppm	0-2000 ppm	<±3%	PID	<5
4	O2	0-30 %VOL	0-25 %VOL	<±0.1%	Electro-Chemical	<15
5	CO	0-1000 ppm	0-2000/3000/5000 ppm	<±3%	Electro-Chemical	<25
6	SO2	0-20 ppm	0-50/100/200/2000 ppm	<±3%	Electro-Chemical	<45
7	NO2	0-20 ppm	0-50/100 ppm	<±3%	Electro-Chemical	<30
8	Cl2	0-20 ppm	0-50/100 ppm	<±3%	Electro-Chemical	<60
9	H2S	0-100 ppm	0-200/500/1000 ppm	<±3%	Electro-Chemical	<35
10	NH3	0-100 ppm	0-200/300/500/1000 ppm	<±3%	Electro-Chemical	<90
11	H2	0-1000 ppm	0-200 ppm	<±3%	Electro-Chemical	<70
12	O3	0-100 ppm	0-500 ppm	<±3%	Electro-Chemical	<45
13	NO	0-250 ppm	0-500 ppm	<±3%	Electro-Chemical	<30
14	HCl	0-20 ppm	0-50/100 ppm	<±3%	Electro-Chemical	<70
15	HCN	0-100 ppm	100 ppm	<±3%	Electro-Chemical	<20
16	HF	0-20 ppm	0-50/100 ppm	<±3%	Electro-Chemical	<120
17	ClO2	0-20 ppm	0-50/100 ppm	<±3%	Electro-Chemical	<60
18	COCl2	0-1 ppm		<±3%	Electro-Chemical	<120
19	CH2O	0-100 ppm	0-200/1000 ppm	<±3%	Electro-Chemical	<120
20	ETO	0-100 ppm	0-200 ppm	<±3%	Electro-Chemical	<120
21	CO2	0-5000 ppm	0-100 % Vol	<±3%	IR	<20
22	N2O	0-1000 ppm		<±3%	IR	<20

- For Hydrocarbons such as Methane, Ethane, Propane, Butane and etc, IR sesnor of Item 2 and Catalytic sensor of Item 1 can Be selected
- For Hydrogen Catalytic sensor of Item 1 can be selected.