

SI-100

Fixed Gas Detector



DESCRIPTION

SI-100 is an excellent fixed gas detector to detect toxic gases, combustible gases and oxygen deficiency, installed in a place where potential gas hazard exists. It shows not only the concentration of protentional gas, but also diagnostic the result of the unit itself through the large digital LCD display. Allows a user to connect to the controller with a standard 4-20mA analog output communication or RS-485 digital communication. Aluminum and stainless-steel enclosure gives an excellent RFI and EMC compatibility.

KEY FEATURE

- Various sensors can be applied
- Easy operation with a magnetic bar
- Large digital LCD display with a blue backlight
- Explosive proof structure
- Water/dust proof structure
- Automatic calibration function by simply applying gas
- Long-distance transmission by 4-20mA output

SPECIFICATION

Model	SI-100			
Measuring Gas	Combustible Gas		Toxic Gas	Oxygen
Measuring Method	Catalytic	IR	Electrochemical Cell	Galvanic
Measuring Range	0~100%LEL	0~100%LEL	*Depends on sensor	0~30%Vol
Sensor Life Time	> 5 years	> 2 years	> 2 years	< 2 years
Response Time	< 15sec/90% scale	< 30sec/90% scale	*Depends on sensor	< 15sec/90% scale
Resolution	1%LEL	1%LEL	*Depends on sensor	0.1%Vol
Measuring Type	Diffusion Type			
Accuracy	±3% / Full scale			
Parameter	Front 3 magnetic switch (Calibration, Maintenace, Alarm setting)			
Operation Mode Display	Visual : LCD Alarm Display, LCD Backlight, 3 Indicator LED			
Measuring Value Display	Digital : LCD Display (4-digit)			
Alarm Display	Visual : LCD Alarm Display, LCD Backlight, 3 Indicator LED			
Alarm Output Signal	Relay contact (Max 30Vdc, 5A) when alarm occurred			
Alarm Level Set	Programmable within detection range			
Output Signal	Analog : 4-20mA, Digital : RS-485 (Standard), HART (Option)			
PC Interface	RS-485 (Option)			
Conduit Connection	NPT 3/4" (2way)			
Mounting Type	Wall mount			
Program set mode	Alarm value (1,2 alarm), Alarm time (instant@delay) 1~30min, Alarm dead band, output on/off			
Operating Temperature	-20°C ~ +55°C			
Operating Humidity	5% ~ 95% RH (Non-condensing)			
Operating Power	9~34Vdc 600mA			
Material	Aluminium, Stainless steel (STS304)			
Dimension	150 (W) x 165 (H) x 110 (D)mm			
Weight	1.9kg (Standard Type)			
Option	Console			
Certification	IECEX	Ex d IIC T5 IP65 Ex d		
	KTL	IIC T5 Ex db IIC T5		
	INMETRO	Gb IP65		