

# SI-100

## Fixed Gas Detector

SENKO



### Description

SI-100 is a fixed gas detector installed in a place where potential gas hazard exists to measure oxygen, toxic gas and combustible gas. It shows not only the concentration of gas but also diagnostic result of the unit itself through the LCD display and can be connected to the controller with a standard 4-20mA analog output communication or RS-485 digital communication.

### Key Feature

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



### Specification

Model	SI-100			
<b>Measuring gas</b>	Combustible Gas		Toxic Gas	Oxygen
<b>Measuring method</b>	Catalytic	IR	Electrochemical cell	Galvanic
<b>Measuring range</b>	0~100%LEL	0~100%LEL	ref. page 19	0~30%VOL
<b>Sensor life time</b>	> 5 years	> 2 years	> 2 years	< 2 years
<b>Response time</b>	<15sec/90% scale	<30sec/90% scale	ref. page 19	<15sec/90%scale
<b>Resolution</b>	1%LEL	1%LEL	ref. page 19	0.1%VOL
<b>Measuring type</b>	Diffusion Type			
<b>Accuracy</b>	±2%/Full scale			
<b>Parameter Control</b>	Front 3 magnetic switch(calibration, maintenance, alarm setting)			
<b>Operation mode display</b>	Visual: LCD alarm display, LCD Backlight, 3 Indicator LED			
<b>Measuring value display</b>	Digital LCD Display(4-digit)			
<b>Alarm display</b>	Visual : LCD alarm display, LCD Backlight, Indicator LED			
<b>Alarm output signal</b>	Relay contact(Max 30Vdc, 5A) when Alarm occurred			
<b>Alarm level set</b>	Programmable within detection range			
<b>Output signal</b>	Analog : 4-20mA(Optional: Hart), Digital : RS-485(Optional)			
<b>PC interace</b>	RS_485(Optional)			
<b>Cable/Distance</b>	(4-20mA and Power: CVVSB 1.5sq or AWG 20 / 2,500m max), (RS-485 data communication cable: UL2919 RS-485 1pair / 1,200m max)			
<b>Conduit connection</b>	NPT 3/4" (2way)			
<b>Mounting type</b>	Wall mount			
<b>Program set mode</b>	Alarm value(1,2 alarm), Alarm time(instant@delay) 1~30min, Alarm dead band, output on/off			
<b>Operating temperature</b>	-20°C ~ +55°C			
<b>Operating humidity</b>	5% to 95% RH(Non-condensing)			
<b>Operating power</b>	9~34Vdc 600mA			
<b>Material</b>	Aluminium, Stainless steel(STS304)			
<b>LCD size</b>	55(W) × 30(H) mm			
<b>Dimensions</b>	150(W) × 165(H) × 110(D) mm			
<b>Weight</b>	Standard type: 1.9kg			
<b>Approval</b>	<b>ATEX</b> Ex d IIC T5 Gb IP65 <b>CSA</b> (Under certification) <b>IECEX</b> Ex d IIC T5 IP65 <b>INMETRO</b> Ex d IIC T5 Gb IP65			