

# SI-100C

## Fixed Gas Detector



### DESCRIPTION

SI-100C is a fixed gas detector installing in a place where potential gas hazard exists to measure oxygen, toxic gas and combustible gas without LCD display. It can be connected to the controller with a standard 4-20mA analog outputs.

### KEY FEATURES

- Explosive proof structure
- Water/dust proof structure
- 4-20mA analog outputs
- Built-in calibration mode
- 2 wires for toxic gases / 3 wires for LEL



### SPECIFICATION

Model	SI-100C				Detectable Gases	
Measuring Gas	Combustible Gas		Toxic Gas	Oxygen	Oxygen	O2
Measuring Method	Catalytic	IR	Electrochemical Cell	Galvanic	Carbon Monoxide	CO
Measuring Range	0~100%LEL	0~100%LEL	*Depends on sensor	0~30%Vol	Sulfur Dioxide	SO2
Sensor Life Time	> 2 years	> 5 years	> 2 years	> 2 years	Hydrogen (ppm or %LEL)	H2
Response Time	< 10sec/90% scale	< 30sec/90% scale	*Depends on sensor	< 15sec/90% scale	Hydrogen Sulfide	H2S
Resolution	1%LEL	1%LEL	*Depends on sensor	0.1%Vol	Ammonia	NH3
Cable/Distance	Single cable : 3-wire > CVVSB 1.5sq or AWG20		Power+Signal cable : 2-wire > CVVSB 1.5sq or AWG20		Nitrogen Dioxide	NO2
Measuring Method	Diffusion Type				Methane (Catalytic)	CH4
Accuracy	±3% / Full scale				Methane (IR)	CH4
Parameter	Control Switch (Calibration), Admin Console (Maintenance, Option)				Chlorine	Cl2
Operation Mode Display	2-LED (Operating and Zero Cal, Span Cal. LED)				Carbon Dioxide (%Vol, ppm or %LEL)	CO2
Output Signal	4-20mA DC (3 Wire for combustible gas, 2 wire for other gas)				Hydrogen Chloride	HCl
Conduit Connection	NPT 3/4" (2way)				Hydrogen Peroxide	H2O2
Mounting Type	Wall mount				Nitrogen Monoxide	NO
Setting	1 Switch Interface (Calibration), Console set available (Option)				Hydrogen Fluoride	HF
Remote Set	via Console (Zero Calibration, Span Calibration, Calibration Gas Concentration Set, Factory default, 4-20mA Calibration, Range Set, Data Logging)				Isobutane	C4H10
Operating Temperature	-20°C ~ +55°C				Propane (Catalytic)	C3H8
Operating Humidity	5% ~ 95% RH (Non-condensing)				Propane (IR)	C3H8
Operating Power	9~34Vdc 600mA				Hydrocarbon	HC
Material	Aluminium, Stainless steel (STS304)				Silane	SiH4
Dimension	102 (W) x 137 (H) x 87 (D)mm				Fluorine	F2
Weight	1.0kg					
Option	Console					
Certification	IECEX		Ex db IIC T5 Gb			
	ATEX		II 2 G Ex db IIC T5 Gb			
	INMETRO		Ex db IIC T5 Gb IP65			