

## Fixed Gas Detector SI-100R

100417

SI 100 R is a full function fixed gas detection head, with options for flammable gas (Catalytic pellistor and NDIR), oxygen and toxic gas detection. In excess of 30 sensor options are available.

The device is ATEX approved explosion proof, and has a local display allowing gas levels to be read and the device to fully configured without opening the casing. In addition to an industry standard 4-20mA output signal the SI-100 R also carries onboard alarm and fault relays.

### Technical specifications

Measuring Gas	Combustible		Toxic Gas	Oxygen
Measuring Method	Catalytic	IR	EC type	Galvanic
Measuring Range	0-100%LEL	0-100%LEL	Refer to table	0-30%VOL
Sensor life time	2 years	2 years	2 years	2 years
Response time	15sec/90%	30sec/90%	Refer to table	15sec/90%
Accuracy	3%/Full scale			
Resolution	1%LEL	1%LEL	Refer to table	0.1%VOL
Parameter Control	Front 3 magnetic switch(calibration, maintenance, alarm setting)			
Operation mode display	Digital LCD display, LCD Backlight, 4 Indicator LED			
Alarm display	Visual : LCD alarm display, LCD Backlight, 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(Option)
PC interact	PC interact RS_485(Option)
Cable/distance	Power + Signal cable : 3-wire 1.5sq(AWG16)/2,500m max RS-485 data communication cable : 1 pair(UL2919 RS-485)/1,200m max
Conduit connection	NPT 3/4" (2way)
Program set mode	Alarm value(1,2,3 alarm) Alarm time(instant & delay)1~30min Alarm dead band Relay output on/off
Temperature/Humidity	-20°C~50°C/ 5% to 95% RH(Non-condensing)
Operating power	10~30Vdc 600mA
Material	Aluminum, Stainless steel(STS304)
LCD size	55(W) × 30(H) mm
Dimensions	135(W) × 164(H) × 110(D)mm
Weight	1.9kg
Approval	Ex d IIC T5 IP65 (ATEX)

