

Gas sensor module FIS3001-99NC-03/50 FIS3001-99C4-03/50

FIS3001-99**-03/50 gas sensor module is a product that incorporates a semiconductor gas sensor into the control circuit. The drive control of gas sensor and output signal processing are performed by the microcomputer program.



Without case (NC type)



With case (C4 type)

Features

High quality and high reliability

The mounted semiconductor SB-type gas sensor developed by our company features high sensitivity, quick response, and excellent durability.

No need for calibration

The calibration with detection gas is already carried out at our factory. Therefore, you can use it as soon as the module is delivered to you.

Easy installation in your device

Our module is compact, lightweight, and easy to take out the output signal. You can incorporate our module into your device easily.

Can be used under severe environment/condition

You can choose module with or without case. Module with case has water-proof function, so that you can use under severe environment e.g. outside, inside of refrigerator etc.

Various output specifications

- Alarm output : 1 or 2 point(s) can be set.
- Concentration output is included within serial signal.
- Malfunction output : Sensor failure, circuit failure, various gas or silicone poisoning can be detected.

SPECIFICATIONS



	Specifications		
Item	Without case (NC type)	With case (C4 type)	
Part No.	FIS3001-00NC-03/50	FIS3001-00C4-03/50	
Mounted gas sensor	SB-95-12		
Target gas	CO, LNG(Methane)		
Alarm response	Within 30 seconds		
Power supply	5.0V DC ± 5%		
Alarm output	CMOS, LED	Open collector, LED	
Alarm concentration	CO:300 ppm CH ₄ :0.500 % (Hysteresis : 70 %)		
Malfunction output	CMOS, LED	Open collector, LED	
Concentration output	Not included		
Average power consumption	35 mA		
Operating temperature range	-10 \sim 50 °C (no condensation)		
Storage temperature range	-40∼60 ℃ (no condensation)		
Dimension	28 x 41 x 20(H) mm	31 x 44 x 20(H) mm	
Weight	5 g	19 g	

Connecto	or pins specifications	
PIN # 1 2 3	Specification DC5.0 V±5 % GND Malfunction output NC type : CMOS output C4 type : Open collector CO alarm output	 Evaluation mer Apply the pow Wait for about (Green LED bling) When the gass ON (LED blinks) decreased. When you finiss Notes on evalue During operation LED (red) and if the sensor reg
4	NC type : CMOS output C4 type : Open collector CH ₄ alarm output	
5	NC type : CMOS output C4 type : Open collector	
6 7-10	Concentration output (Serial signal)	 Do not spray h Avoid storage of

ethod

- ver supply voltage with pin 1 as DC5V and pin 2 as GND.
- t 7 seconds until the initial warm-up operation is completed. inks)
- s concentration exceeds the alarm level, the alarm output turns s) and automatically canceled when the gas concentration gets
- ish the measurement, turn off the input voltage.

uation

- ion, the sensor failure is always observed. In case of failure, the LED (green) will blink alternately at 0.25 second intervals, and eturns to normal, LED will switch itself off automatically.
- gulation on the mounting direction of the product.
- high-concentrated gas directly on the gas sensor.
- or use near silicon or organic solvents.

Please contact

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In the interest of continued product improvement, we reserve the right to change design features without prior notice.