

FIS GAS SENSOR

FIS3000 series

Gas Sensor Module

FIS 3000 series gas sensor modules include FIS SB type gas sensor and the application circuit. The embedded circuit contains sensor driving and output signal processing functions.



With case



Without case

Features

■ High performance and reliability

The module includes FIS developed SB type semiconductor gas sensor. This sensor has a rapid response and excellent durability.

■ No calibration required

Since the module is factory calibrated, users do not need an expensive and complicated calibration equipment and procedure.

■ Easy installation to your product

The module is small and light with easy output wiring.

■ Extensive lineup for target gas

Not only for combustible gases such as methane, hydrogen, LPG, but also for carbon monoxide, freons, organic solvents, etc.

■ Usable under severe environment

Since the module with case is waterproof, it can be used under severe environment such as extreme outside condition and in a refrigerated room.

■ Variety of output specifications

- Alarm output: One or two outputs
- Gas concentration output: Output through serial signals
- Malfunction output: Sensor defect, circuit defect, and defect caused by poisoning of noise gases and siloxane

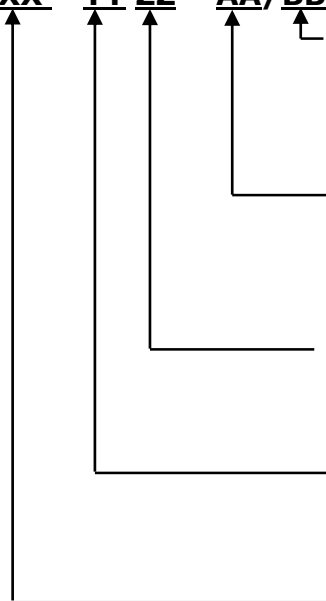
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SPECIFICATIONS

Item	Contents	
	Without case	With case
Model	See "Model number system" below	
Sensor	SB type semiconductor gas sensor	
Target gases	See "Model number system" below	
Response	Several seconds to one minute depending on the model	
Supply voltage	5.0V DC +/- 5%	
Alarm output	CMOS and LED	Open collector and LED
Malfunction output	CMOS and LED	Open collector and LED
Concentration output	Serial signal as option	
Current consumption	35mA (average), depending on model	
Operating temperature	-10 to 50C without dew condensation	
Storage temperature	-40 to 60C without dew condensation	
Dimensions	28 x 41 x 20(H)mm	31 x 44 x 20(H)mm
Weight	5g	16g

Model number system

FIS 30 XX - YY ZZ - AA/BB



One-hundredth of alarm concentration (ppm)

- XX=01 to 21: Methane or LPG
- XX=31 to 92 and YY=00: Blank
- XX=31 to 92 and YY=99: Second alarm

One-hundredth of alarm concentration (ppm)

- XX=01 to 21: Carbon monoxide (CO)
- XX=31 to 92 and YY=00: Alarm
- XX=31 to 92 and YY=99: First alarm

Case

- C4 : With
- NC : Without

Output

- 00 : First alarm only
- 99 : First and second alarms, concentration serial data

Target gas

- 01:** CO/CH₄, **21:** CO/LP, **31:** CH₄, **42:** H₂, **51:** CO, **61:** LPG
72: Organic solvent, **82 to 84:** Refrigerant, **91:** NH₃, **92:** H₂S

Please contact

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