

NEW Gas Sensor Module

FIS3000 series

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. Since the module is factory calibrated, users do not need expensive and complicated calibration equipment and procedure. The finished product can be designed easily. Modules with a case are also available.



Without case



With case

Features

- Using small and highly gas sensitive "SB" type sensor.
- Factory calibrated for target gas
- Alarm output
- Compensated for temperature and humidity change
- Output digital concentration for quality control
- Low power consumption
- Malfunction output
- Small and light
- Inexpensive

Pin configuration

Pin No.	Symbol	Contents
1	VDD	Power supply 5.0V DC
2	VSS	GND 0V DC
3	MAL	Malfunction output
4	CO	CO alarm output
5	GAS	Gas alarm output
6	SERIAL	QC data output
7	RST	QC data request
8	CAL	For factory setting
9	RESET	Reset
10	MODE	For factory setting

Specifications

Item	Contents
Model	See table below
Sensor	FIS "SB" type semiconductor gas sensor
Target gases	See table below
Response	Within 1 minute
Supply voltage	5.0V DC +/- 5%
Alarm output	CMOS type, 0 or 5V DC for without case Open collector type, 0 or 5V DC for with case
Malfunction output	Alternative ON between Red and Green LEDs every 0.25sec
Digital output for QC	Various serial data
Current consumption	17mA
Operating temperature	-10 to 50C without dew condensation
Storage temperature	-40 to 60C without dew condensation
Dimensions	28 x 41 x 20 (H) mm for without case 31 x 44 x 20 (H) mm for with case
Weight	5g without case 16g with case

* For details, please refer to the independent specifications of each model.

Models

Model No.	Target gas (alarm concentration)
FIS3001-00NC	Carbon monoxide (300ppm) and methane (5000ppm)
FIS3011-00NC	Carbon monoxide (300ppm) and hydrogen (3000ppm)
FIS3021-00NC	Carbon monoxide (300ppm) and LPG (1500ppm)
FIS3031-00NC	Methane (5000ppm)
FIS3041-00NC	Hydrogen (3000ppm)
FIS3042-00NC	Hydrogen (6000ppm)
FIS3051-00NC	Carbon monoxide (300ppm)
FIS3061-00NC	LPG (1500ppm)
FIS3071-00NC	Solvent
FIS3081-00NC	Refrigerant
FIS3082-00NC	R410A (1000ppm)
FIS3083-00NC	R22 (1000ppm)
FIS3091-00NC	Others

Note: The above models are WITHOUT case. WITH case mode, replace "NC" with "C1". For example, model no. for FIS3001 with case is FIS3001-00C1.

If you need the module to detect other gas at another concentration than the ones listed above, please contact us.



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