FSM-T-601 Pre-calibrated Module for Combustible Gas

Features:

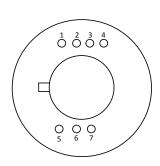
- * Analog linear output proportional to gas concentration
- * Maintenance free
- * Small volume
- * RoHS Compliant

The pre-calibrated module for combustible gas sensor FSM-T-601 is a new module in which Figaro's catalytic pellistor TGS6812 is installed and features good durability as well as high stability. It is able to provide analog voltage output (the module is equipped with a memory in which the factory pre-calibration data are stored) proportional to the concentration detected. Meanwhile, the module could detect whether there is a sensor disconnection. And it can be operated over a wide temperature range.

In addition, if detecting methane, propane and hydrogen etc., the module has neglectable cross sensitivities to organic gases, and has a better tolerance against silicone compounds, for which it is more suitable to adverse environment.

Sensitivity characteristics:

The output of the module is analog voltage signal linear with the concentration of methane gas in the air.



Top View

Applications:

- * Leakage detection for methane gas
- * Combustible gases leaking detector
- * Industrial detector



Pin connections:

Pin	Name	Description
1	WP	I ₂ C write protection
2	SCK	I ₂ C clock
3	SDA	I ₂ C data
4	+5V	Voltage in
5	+3V	Voltage in
6	GND	Ground
7	Vout	Analog voltage output

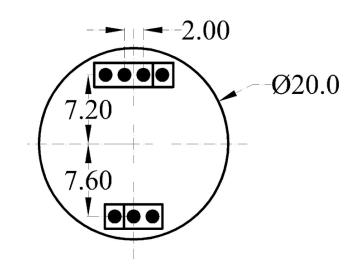
Specifications::

Name	Pre-calibrated module for combustible gas		
Model No	FSM-T-601		
Gas sensor	TGS6812 (catalytic combustible)		
Measuring range	0 ~ 50,000ppm Methane (Other flammable gases can also be detected)		
Error	± 3%LEL		
Voltage output	0.5~4.5V DC(Max. +5V)		
(Vconc)	Fault	Vconc=0∼0.1V	
Factory setting output	Vconc in air 1.0±0.5V		
Response time(T90)	≤30 s		
Working condition	-10° C ~+70° C, 20~95%RH (non-condensing)		
Storage	-10°C ~+80°C, 20~95%RH		
Input voltage (VIN)	5.0±0.2V DC, 3.0±0.1V DC		
Power consumption	≤1.5W		
Net weight	<15g		
Dimension	φ23.6mm H23.2mm		
Standard	Environment	20±2°C, 65±5%RH	
Test Condition	Loop	5.0±0.2V、3.0±0.1V DC DC	
Condition	Warming up	≥10 Min.	

Note: 1. Please contact us if the module is used to detect other combustible gases or alarm points (calibration points) of different measuring ranges are to be used.

- 2. The detection errors may be different due to the difference of detection gases and ranges.
- 3. Please consult relevant personnel of us before using the data stored in the memory of the module.

Dimmensions:



Unit: mm

All sensor characteristics shown in this brochure represent typical characteristics. Actual characteristics vary from sensor to sensor and from production lot to production lot. For more information, please refer to sensor spec and related info. For performance improvement, product is subject to change without notice. \circ