

FSM-T-04A- Pre-calibrated module for combustible gas

Features:

- * **Linear analog output proportional to gas concentration**
- * **Maintenance free**
- * **Compact size**
- * **Meets RoHS requirements**

Applications:

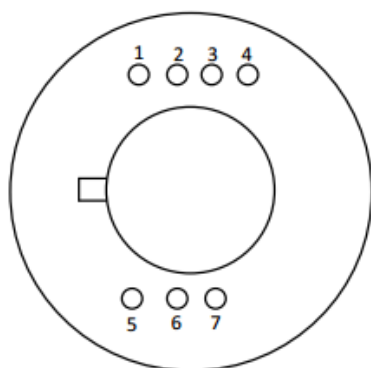
- * **Gas leak detection in fuel cell systems**
- * **Hydrogen & combustible gas leak detectors**

The **FSM-T-04A** combustible gas sensor module is a new unit which utilizes **TGS6812**, catalytic pellistor type gas sensor which features durability and stability. This module provides analog output voltage proportional to hydrogen gas concentration.(There is a memory in module, where factory calibration data has been store). **FSM-T-04A** has conformal coatings for moisture proofing and electrical insulation purposes, and is also capable of detecting sensor wire breakage. The unit has a wide range of operating temperature from -10° to $+70^{\circ}\text{C}$.



Furthermore, the unit can detect CH₄, LPG, H₂. It is less sensitivity to VOCs gas, it immunes poison by silicon compounds, it suits to work at rugged environment.

Pins and connection:



Pins	Name	Description
1	WP	I2C write protection
2	SCK	I2C Clock
3	SDA	I2C Data
4	5V	Input voltage
5	3V	Input voltage
6	GND	Ground
7	Vout	Analog Voltage Output

Specification:

Product name	Combustible gas sensor module	
Model No.	FSM-T-04A	
Gas sensor	TGS6812 (catalytic type)	
Detection range	0 ~ 50,000ppm CH4 (also can detect methane, iso-butane, and propane)	
Error	± 3%LEL	
Output voltage (Vconc)	0.5~4.5V DC (Max 5V)	
	Trouble	Vconc=0~0.1V
Factory setting output	Vconc in air	0.5~1.5V
Response time (T90)	≤30S	
Operating conditions	-10°C ~+70°C, 20~95%RH (No condensing)	
Storage conditions	-10°C ~+80°C, 20~95%RH	
Input voltage (VIN)	5.0±0.2V DC , 3.0±0.1V DC	
Power consumption	≤1.5W	
Weight	15g or less	
Dimensions	φ 23.6mm H:23.2mm	
Standard test conditions	Ambient conditions	20±2°C, 65±5%RH
	Circuit conditions	5.0±0.2V、3.0±0.1V DC
	Conditioning period prior to test	≥10 minutes

Dimensions:

