

AMS2000-2100 - Precalibrated Gas Sensor Module

Features:

- * High sensitivity to deoxidizing gases in air contaminants
- * Long life
- * Maintenance free

The AMS 2000-2100 gas sensor module is factory precalibrated for usage in conjunction with system feature control microprocessors FIC93619A or FIC 5603.

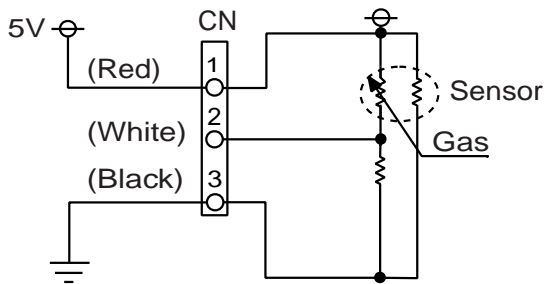
The module is composed of Figaro Gas Sensor TGS2100 and a load resistor on a PCB, an XHP-3 connector and three lead wires. Because of its wide sensitivity spectrum, TGS2100 is ideal sensor for the detection of indoor air pollution which is caused by cigarette smoke, cooking fumes, etc. This module enables users to create a low cost indoor air monitor by eliminating the need for a sophisticated calibration process.

Application:

- * Air quality control device



Electronic Circuit



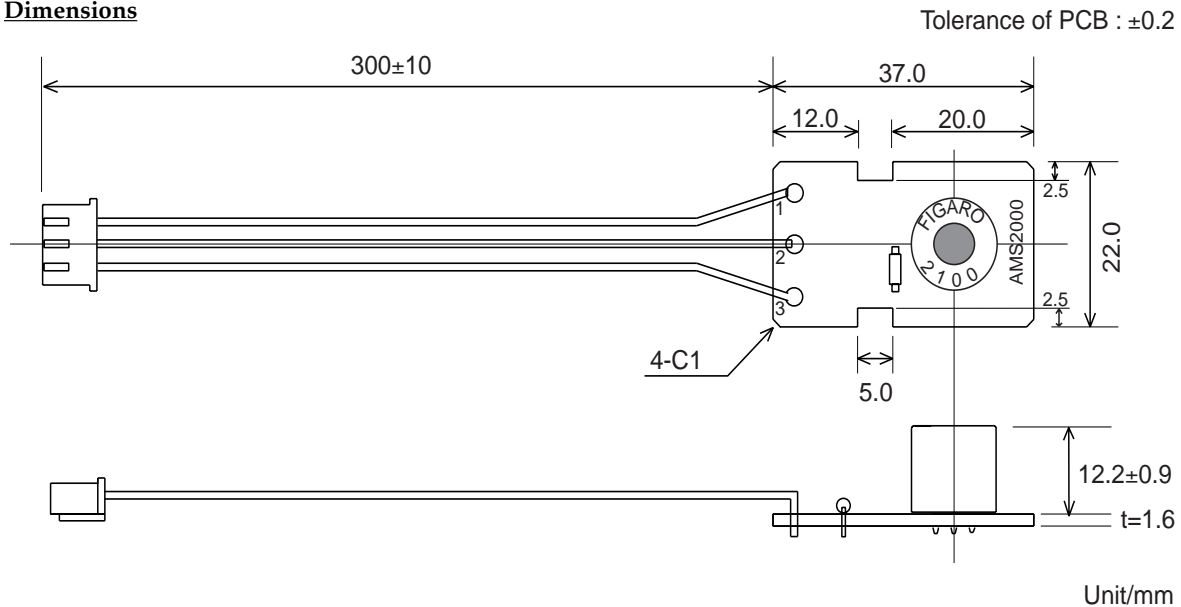
Terminal Connections

Terminal	Name	Function
1 (red)	Input	heater voltage (VH) circuit voltage (VC)
2 (white)	Output	output voltage (Vout)
3 (black)	Common	ground (GND)

Specifications

Item	Specification	
Model No.	AMS2000-2100	
Target gas	deoxidizing gases in air contaminants	
Sensor	TGS2100	
Input voltage	5.0±0.2v DC	
Power consumption	approx. 760mW	
Connector	XHP-3	
Operating temperature	-10 ~ 40°C	<i>(avoid condensation on the module)</i>
Storage temperature	-20 ~ 60°C	
Dimensions	PCB : 37 x 22 x 13mm lead wire length : 300±10mm	
Weight	approx. 20g	
Vair (Vout in clean air at 20±2°C/65±5%RH)	0.7 ~ 2.5v typical value = 1.5	
Sensitivity [Rs(H2 10ppm)/Rs(air)]	0.18 ~ 0.62 typical value = 0.4	

Dimensions



Standard Test Conditions

Item	Test Condition
Temperature	20 \pm 2°C
Humidity	65 \pm 5%RH
Test gas	Hydrogen > 99% purity
Test gas concentration	10ppm
Input voltage	5.0v DC \pm 4%
Sensor preheating prior to test	\geq 24 hours in clean air
Test chamber capacity	\geq 1 liter per sensor

Notes:

Figaro recommends this product be used in conjunction with Figaro's special microprocessor (FIC93619A or FIC5603) when making an air quality control device.

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