

AMS2000-2600 - Precalibrated Gas Sensor Module

Features:

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

The AMS 2000-2600 gas sensor module is factory pre-calibrated for usage in conjunction with system feature control microprocessors FIC93619A or FIC5603.

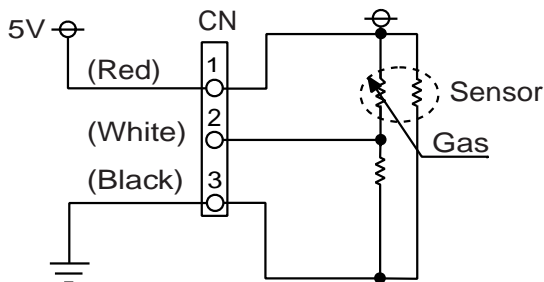
The module is composed of Figaro Gas Sensor TGS2600 and a load resistor on a PCB, an XHP-3 connector, and three lead wires. Because of its wide sensitivity spectrum and low power consumption, TGS2600 is the ideal sensor for the detection of indoor air pollution which is caused by cigarette smoke, cooking 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.	AMS2000-2600
Target gas	deoxidizing gases in air contaminants
Sensor	TGS2600
Input voltage	5.0±0.2v DC
Power consumption	approx. 210mW
Connector	XHP-3
Operating temperature	-10 ~ 40°C
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

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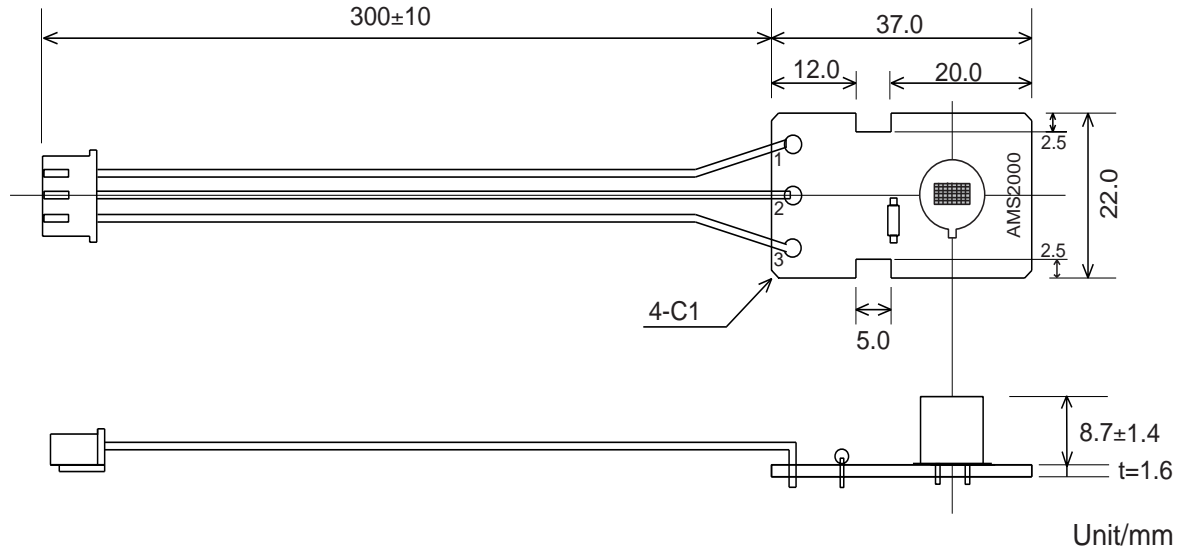
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Dimensions

Tolerance of PCB : ± 0.2



Standard Test Conditions

Item	Test Condition
Temperature	$20 \pm 2^\circ\text{C}$
Humidity	$65 \pm 5\% \text{RH}$
Test gas	Hydrogen > 99% purity
Test gas concentration	10ppm
Input voltage	5.0v DC $\pm 4\%$
Sensor preheating prior to test	≥ 24 hours in clean air
Test chamber capacity	≥ 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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