

AMS2000-2600 - Precalibrated Gas Sensor Module

Features:

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

Application:

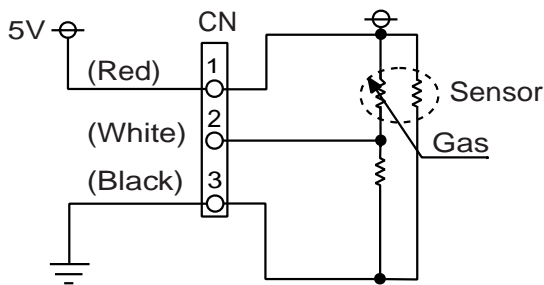
- * Air quality control device

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.



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)

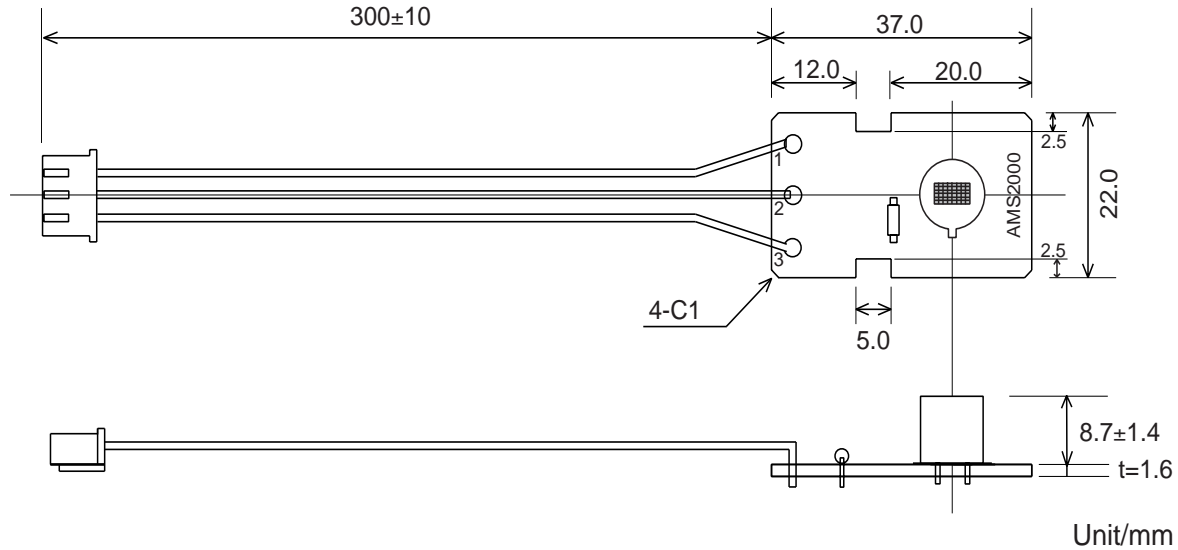
Specifications

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
	<i>(avoid condensation on the module)</i>
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

深圳市新世联科技有限公司

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.

Figaro's products are not authorized for use as critical components in life support applications wherein a failure or malfunction of the products may result in injury or threat to life.

Figaro Engineering Inc. (Figaro) reserves the right to make changes without notice to any products herein to improve reliability, functioning or design. Information contained in this document is believed to be reliable. However, Figaro does not assume any liability arising out of the application or use of any product or circuit described herein; neither does it convey any license under its patent rights, nor the rights of others.

深圳市新世联科技有限公司