

AMS2000-2600 - Precalibrated Gas Sensor Module

Features:

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

Application:

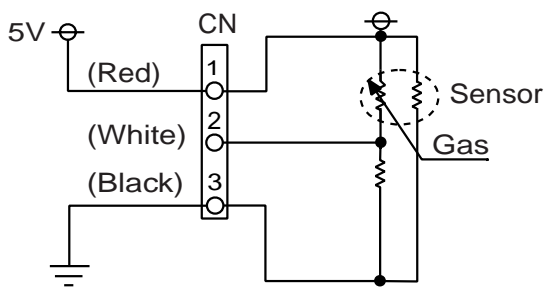
- * Air quality control device

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

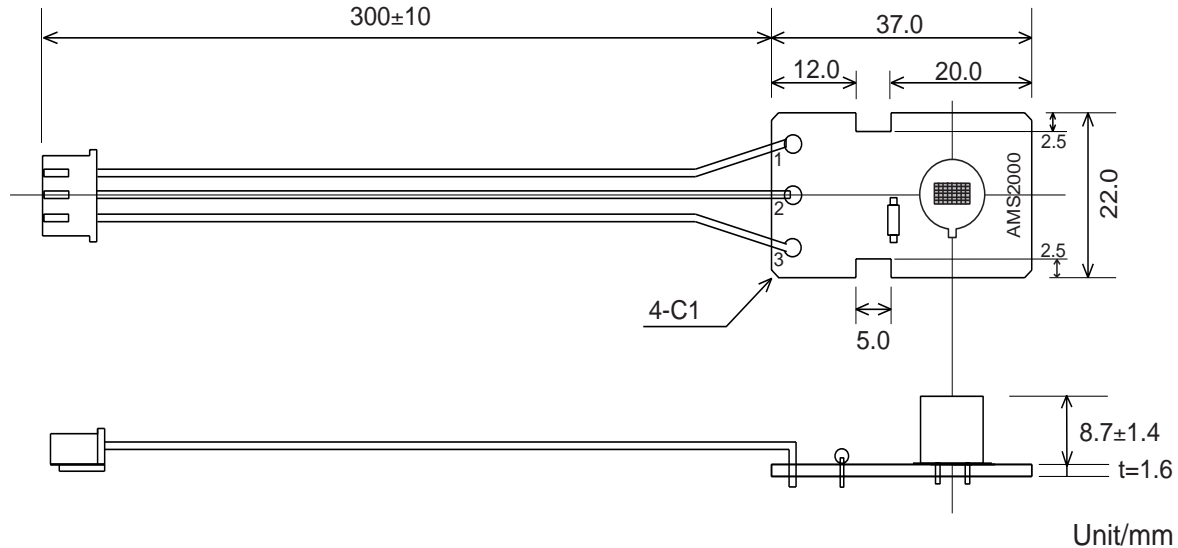
| Terminal | Name | Function |
|-----------|--------|---|
| 1 (red) | Input | heater voltage (VH) circuit voltage (VC) |
| 2 (white) | Output | output voltage (Vout) |
| 3 (black) | Common | ground (GND) |

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 | <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

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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