QM-NG1 Type Gas Sensor uses SnO2 material as impressible material. SnO2 material is most advanced in the world at present, and being usually in cosmical production. The characteristic of the product is with High sensitivity for all flammable and poisonous gas, Long inductive time, Long resumptive time, and Long life-span ect.

Applications

Exhaust fan, Toy, Air cleaner, Smog inductor, Gas annunciator and all place polluted ect.

Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calefaction Voltage (VH)</td>
<td>AC or DC 5±0.2V</td>
</tr>
<tr>
<td>Loop Voltage (VC)</td>
<td>Max DC 24V</td>
</tr>
<tr>
<td>Load Resistance (RL)</td>
<td>2kΩ</td>
</tr>
<tr>
<td>Output in clean air (V0)</td>
<td>.7V</td>
</tr>
<tr>
<td>Signal Output (V01)</td>
<td>≥V0+1; ≥3V0</td>
</tr>
<tr>
<td>Inductive Time</td>
<td>≤10S</td>
</tr>
<tr>
<td>Resumptive Time (tres)</td>
<td>≤30S</td>
</tr>
<tr>
<td>Power</td>
<td>≤0.7W</td>
</tr>
<tr>
<td>Life-span</td>
<td>5 Years</td>
</tr>
</tbody>
</table>

Operation method and cautions

1. When working with electric circuit and has not met gas tested, the ele-conductance is on the increase, then being stabilization after one minute, just it is used normally. In this change course, we can adopt overtime disposal .

2. It must be in voltage range when used, because the change of calefaction voltage can directly effect the capability .

3. The Voltage of load resistance can be per.80 of dispersion (Vd-Va) (Inductive Time) when sensor
meets the hydrogen of 500ppm in 10 seconds. The voltage of load resistance can be per.80 of
dispersion(Vdg-Va) (Rdsumptive Time) when sensor leave the hydrogen of 500ppm in 30
seconds.

4. Symbol specification
   Resistance in tested gas Rdg Voltage in tested gas Vdg
   Resistance in tested gas Rig Voltage in tested gas Vig
   Relation of Rdg and Vdg Rdg=Rl(Vc/Vdg\-1)
   Relation of Rig and Vig Rig=Rl(Vc/Vig\-1)

5. Load resistance can be changed properly if require, the change will not effect the sensitivity.

6. Condition
   Temp.:\-15~35°C
   Relative Humidity: 45~75%RH
   Atmospheric Pessure:80~106Kpa

7. When used in precision instrument, sensor should carry on the warm humidity to compensate,
   because the change of warm humidity can effect the resistance. The best way for the following just
   adopt Thermal resistor.

8. Avoid to be put in caustic gas and oil, and jammed by dust for stainless steel network of the
   explosion-proof when used chronically.

9. Six foot positions of componet can be matched and used with senven corners of electron seat.