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Products Show

English >> Products >> Gas Sensor >> QM-NG1



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.

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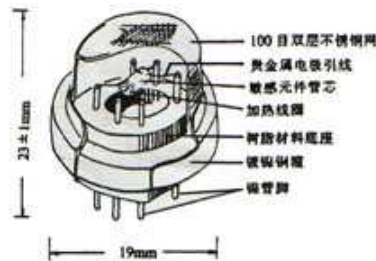
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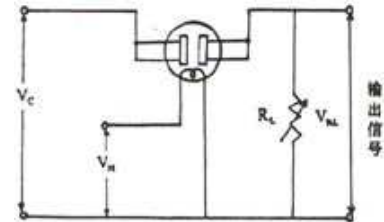
➔ Applications

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

➔ Structure



➔ Circuit diagram



➔ Specifications

Calcfaction Voltage (VH)	AC or DC 5±0.2V
Loop Voltage(VC)	Max. DC 24V
Load Resistance(RL)	2kΩ
Output in clean air(V0)	? .2V
Signal Output(V01)	≥V0+1; ≥3V0
Inductive Time	≤10S
Resumptive Time(tres)	≤30S
Power	≤0.7W
Life-span	5 Years

➔ 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(Vdg-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 R_{dg} Voltage in tested gas V_{dg}

Resistance in tested gas R_{ig} Voltage in tested gas V_{ig}

Relation of R_{dg} and V_{dg} $R_{dg} = R_l(V_c/V_{dg} - 1)$

Relation of R_{ig} and V_{ig} $R_{ig} = R_l(V_c/V_{ig} - 1)$

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

Amospheric 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.

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