

TECHNICAL INFORMATION SHEET NAP-56A Catalytic Gas Sensor, For Flammable (Explosive) Gases

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General Description

The Nemoto NAP-56A is a new, improved low cost catalytic flammable gas sensor. Closely related to the very popular NAP-55A sensor, the NAP-56A uses exactly the same sensing elements, but the enclosure in which they are mounted employs a nickel plated brass mounting cap and a phenolic resin header, instead of the Nylon 66 material used in the NAP-55A. As a result, the sensor exhibits an increased sensitivity output and an increase in useful temperature range, whilst being very slightly larger in dimensions, compared to the NAP-55A.

The widened temperature range of the NAP-56A makes it particularly suitable for applications such as recreational vehicles, caravans and marine applications where a wide temperature range is required. The mechanical construction and technical performance of this sensor makes it also suitable for a wide variety of Industrial and commercial gas detection applications.



Specifications:

Detectable Gas All Flammable Gases

(Optimised for the Detection of Methane / Natural Gas)

Recommended Voltage: 2.5V +/- 0.2V Current Drawn: 170 +/- 10mA

Zero Offset: 0mV +/- 35mV Signal Sensitivity: 15-23 mV for 3000ppm CH4

Range: 0-60% LEL
Repeatability: +/- 0.5mV

Maximum Long Term Drift:

Span: < +/- 2% Signal / Month
Zero: <+/- 2 mV / year

Response Time: T₉₀: <10 sec

Temperature Range: -30°C to +70°C

Humidity: 0-95%RH, non-condensing Linearity: Effectively Linear to 60%LEL

Expected Lifetime 5 years

Test data on drift, poisoning, temperature performance, linearity are available on the Characterisation Document.

Monitors flammability directly

Superb temperature stability

Linear output to 50% LEL

Unaffected by humidity

Very low long term drift

Single header design

Poison resistant

Shock Resistant

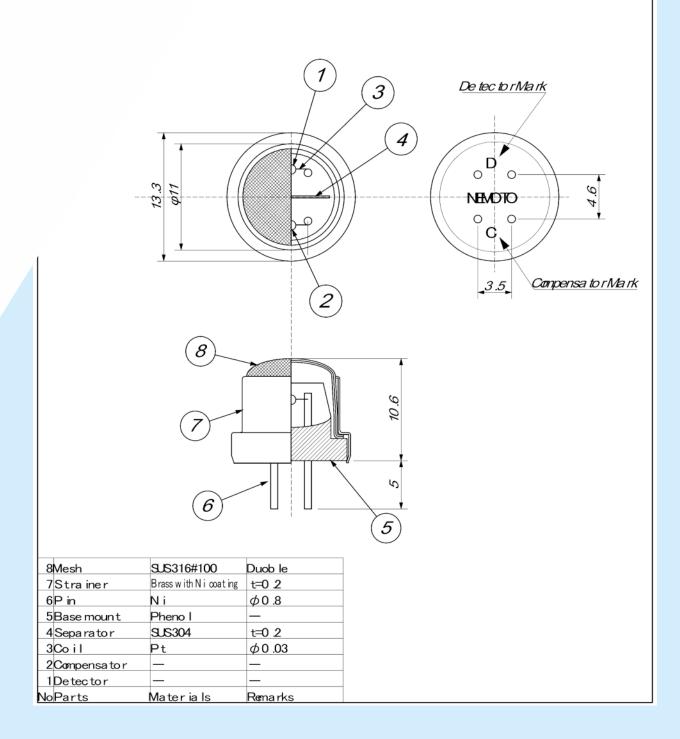


Nemoto has a policy of continuous development and improvement of its products. As such the specification for the device outlined in the data sheet may be changed without notice

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Dimensions, Materials and Recommended Circuit



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