

NEMOTO Sensor Engineering Co.Ltd

NAP-67A Catalytic Gas Sensor for Propane / Butane / LPG

The Nemoto NAP-67A is a new, improved low cost catalytic flammable gas sensor. Closely related to the very popular NAP-66A sensor, the NAP-67A 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-66A. 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-66A.



The widened temperature range of the NAP-67A makes it particularly suitable for applications such as recreational vehicles, caravans and marine applications where a wide temperature range is required.

- Monitors flammability directly
- **Wide Temperature Range**
- Very low long term drift
- **Excellent resistance to catalytic poisons**
- Single header design for ease of use
- Superb temperature stability
- Resistant to shocks and vibration
- Linear output to 50% LEL

Specifications NAP-67A:

Detectable gas:

Note: The NAP-67A is not recommended for the

measurement or detection of Methane.

Detection range: 0-50% LEL 2.0V +/- 0.2V Bridge Voltage

Bridge Current 160mA +/- 10mV

Bridge zero offset*: 0 +/- 35mV

*in Nemoto's recommended bridge circuit

Repeatability:

Zero: +/- 0.5mV Signal:

Propane/Butane/LPG Long Term Drift: Zero: <+/- 5mV/month

> Span: <+/- 2%/month Effectively Linear to 50% LEL

Linearity: Response time(T_{90}): <10 seconds

Note: In practice the response time of a gas sensor is very much dependent on the mounting arrangement within an instrument.

Environmental Conditions:

Gas Signal*: Typically 20mV @2000ppm C₄H₁₀ Operating temperature: -40°C to +70°C Humidity range: 0-95% RH Pressure: 0.9 - 1.1 atm -20°C to +50°C Storage Temperature: +/- 0.5mV Recommended Storage Time: 6 months

NAP-67A datasheet July 2010

Nemoto has a policy of continuous development and improvement of its products. As such the specification for the device outlined in the data

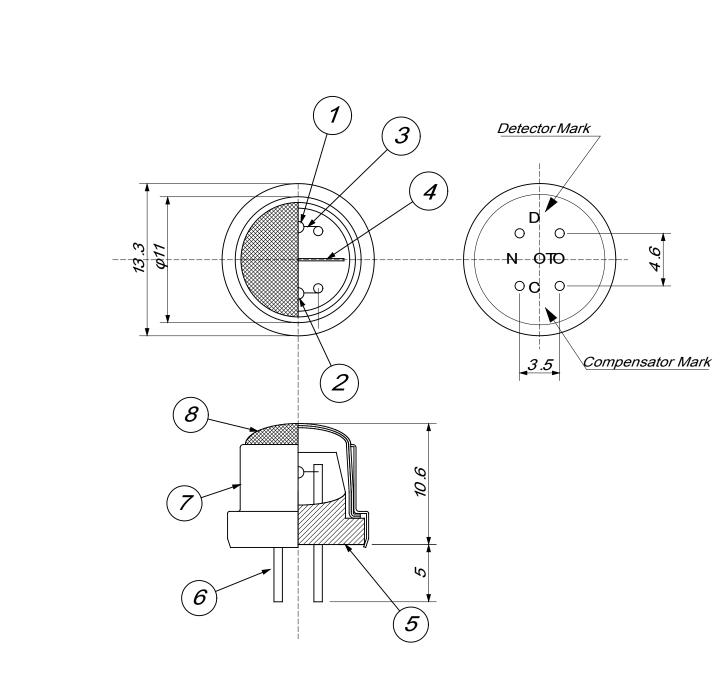
Nemoto (Europe) B.V. Strawinskylaan 647,1077 XX Amsterdam, Netherlands TEL: +31 20 670 3858

FAX: +31 20 670 2709

sheet may be անձունացեր ար thout / Դաև ensor-ic.com/ TEL: 0755-83376489 FAX:0755-83376182 E-MAURLszbstp ն/ Թաստարատասես.co.jp



Dimensions, Materials and Recommended Circuit



Label	Part	Material	Comments
1	Detector	N/A	N/A
2	Compensator	N/A	N/A
3	Coil	Platinum	Ø = 0.03
4	Separator	304 SS	T = 0.2
5	Base Mount (Header)	Phenolic Resin	
6	Connecting Pin	Nickel	Ø = 0.8
7	Protective Can	Nickel Plated Brass	T = 0.2
8	Mesh	316 SS	Double