



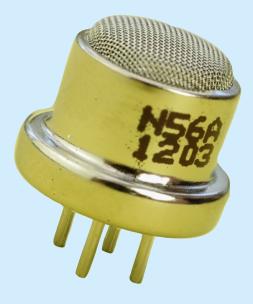
# TECHNICAL INFORMATION SHEET NAP-56A Catalytic Gas Sensor, For Flammable (Explosive) Gases

Nemoto Sensor Engineering Co., Ltd. 4-10-9, Takaido-higashi, Suginami-ku, Tokyo, JAPAN

### **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.



	Spec	ificati	ions:
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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:	T <sub>90</sub> : <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	

• Monitors flammability directly

- Unaffected by humidity
- Very low long term drift
- Poison resistant
- Single header design
- Superb temperature stability
- Shock Resisitant
- Linear output to 50% LEL

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

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

nap-56a.ppp,issue 4, August 2015

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公司名: 深圳市工采网络科技有限公司

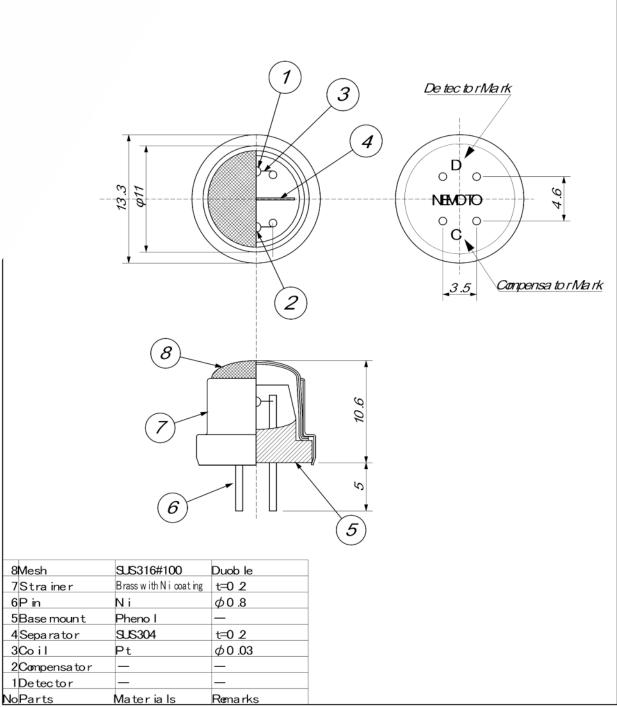
电话:+ 86-755-83289069

地址: 广东省深圳市南山区高新南一道中国科技开发院3号楼16层

传真:+86-755-83289052

邮箱: sales@isweek.cn





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## **Contact Information:**

## Website

Europe & Africa Area Asia Area Americas Area www.nemoto.eu www.nemoto.co.jp www.nemoto.eu

## email

eusensor@nemoto.co.jp sensor2@nemoto.co.jp nasensor@nemoto.co.jp

## Telephone

- +44 (0)1799 543968
- +81 3 3333 2760
- +1 604 761 7363