

TECHNICAL INFORMATION SHEET NAP-55A Catalytic Gas Sensor, For Flammable (Explosive) Gases

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General Description

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The NAP-55A uses the superior catalytic "pellistor" detection principle often used in high quality Industrial Gas Detectors. It hence has many benefits over other low cost gas sensor types



- Monitors flammability directly
- Unaffected by humidity
- 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:

| 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: | 37-53mV for 1% CH ₄ |
| Range: | 0-60% LEL |
| Repeatability: | +/- 0.5mV |
| Maximum Long Term Drift: | |
| Span: | < +/- 2% Signal / Month |
| Zero: | <+/- 2 mV / year |
| Response Time: | T ₉₀ : <10 sec |
| Temperature Range: | -20°C to +60°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.

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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Contact Information:

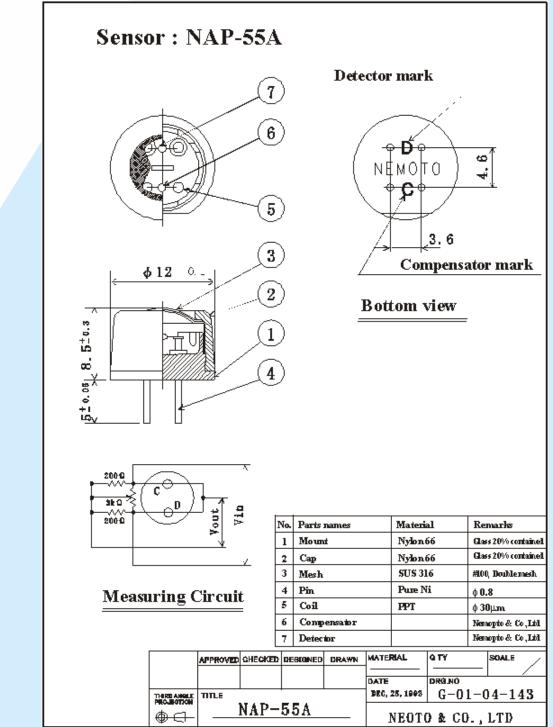
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Dimensions, Materials and Recommended Circuit



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