

TECHNICAL INFORMATION SHEET NCH-180 Explosion Proof Catalytic Flammable (Explosive) Gas Sensor

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General Description

The Nemoto NCH-180 is a new low cost catalytic flammable gas sensor fitted within a certified flameproof enclosure.

Using the popular NAP-56A sensor, the NCH-180 offers excellent detection performance, stability and long life but may also be used in hazardous locations when coupled with a suitable certified flameproof Junction Box.

The NCH-180 is remarkably compact compared with other similar devices, with the sensor contained within the same barrel as the mounting thread, resulting in a very ergonomically elegant design.

Monitors flammability directly

Certified Flameproof to ATEX

Superb temperature stability

Effectively Linear to 60% LEL

Unaffected by humidity

Very low long term drift

Poison resistant

and IEC Standards

Shock Resistant



Specifications:

Detectable Gas

Approvals:

Ext IIC T4 Gb

Ext b IIIC T135°C Db IP6X

Note: Alternative temperature ratings are available within the certification of the device. Please contact Nemoto if a different T rating is required.

Certificates: SIRA 08ATEX1313X IECExSIR08.0123X

Recommended Voltage: 2.5V +/- 0.2V Current Drawn: 180 +/- 10mA

Zero Offset: 0mV +/- 35mV Minimum Sensitivity: 20 mV for 1% CH4

Range: 0-60% LEL *

Repeatability: +/- 0.5mV

Maximum Long Term Drift:

Span: < +/- 8% FSD / Year

Zero: <+/- 2mV / year Response Time: T_{90} : < 30 sec

Temperature Range: -20°C to +70°C

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

Expected Lifetime >5 years

* (May be extended to 0-100% LEL with suitable linearity correction)

Test data on drift, poisoning, temperature performance, linearity are available in the NAP-56A 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

nch-180.ppp, issue 2, August 2015

Contact Information:
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Americas Area

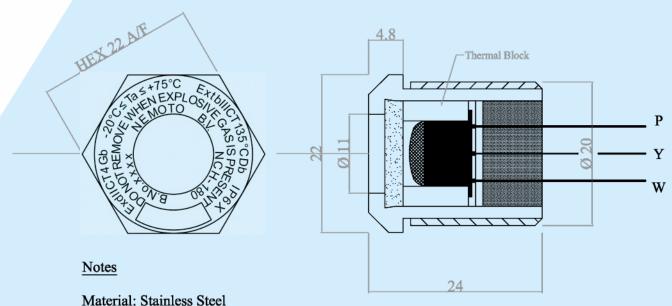
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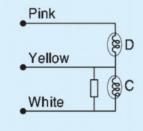


Dimensions and Construction



Thread: M20 x 1.5 Dimensions: mm Tolerance: ±0.2

Wiring Connections:



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