

# Average temperature measurement Prothermo NMT532

## High precision average temperature measurement



### Benefits:

- High accuracy
- Intrinsically safe device allowing for the safest electrical configuration possible
- Compatible with FieldCare
- Simple and economical
- Compact size and weight
- High reliability and easy installation
- Maintenance free

### Specs at a glance

- **Accuracy** +/- 0.1 °C
- **Max. process pressure (static)** 0 bar...0.5 bar (0 psi...7.25 psi)
- **Operating temperature range** -20 °C...100 °C (-4 °F...212 °F)
- **Max. immersion length on request** 18.5 m (60.6 ft)

More information and current pricing:

[www.us.endress.com/NMT532](http://www.us.endress.com/NMT532)

**Field of application:** The Prothermo NMT532 is an intrinsically safe multi-signal converter with precision average temperature sensor for inventory control. It is a highly capable solution for a variety of tank gauging applications and provides constant average temperature data via HART communication. For custody transfer and accurate inventory measurement, it is best suited connected to Proservo NMS5 or Tank Side Monitor NRF590 with Micropilot radar tank gauge.

### Features and specifications

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## Thermometer

**Measuring principle**

Resistance Temperature Detector

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**Characteristic / Application**

High precision average temperature measurement

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**Max. immersion length on request**

18.5 m (60.6 ft)

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**Process connection**

DN50 PN 10 RF

ASME 2"150 lb RF

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**Operating temperature range**

-20 °C...100 °C

(-4 °F...212 °F)

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**Max. process pressure (static)**

0 bar...0.5 bar

(0 psi...7.25 psi)

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**Accuracy**

+/- 0.1 °C

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**Ex - approvals**

ATEX, FM, CSA, IEC Ex, NEPSI

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## Continuous / Liquids

**Measuring principle**

Servo / Float Tank Gauging

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**Characteristic / Application**

High precision average temperature measurement

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**Continuous / Liquids****Supply / Communication**2-wire (HART)

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**Accuracy**+/- 0.1 °C

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**Ambient temperature**-40 °C ... 85 °C  
(-40 °F ... 185 °F)

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**Process temperature**-20 °C ... 100 °C  
(-4 °F ... 212 °F)

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**Process pressure absolute / max. overpressure limit**0 bar ... 0.5 bar  
(0 psi ... 7.25 psi)

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**Main wetted parts**316 SUS

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**Process connection**DN50 PN 10 RF  
ASME 2"150 lb RF

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**Max. measurement distance**18.5 m (60.6 ft)

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**Communication**digital HART

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**Certificates / Approvals**ATEX, FM, CSA, IEC Ex, NEPSI

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**Application limits**Heating coil or other mechanical obstruction in tank: may affect total length

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More information [www.us.endress.com/NMT532](http://www.us.endress.com/NMT532)