

Average temperature measurement Prothermo NMT532

High precision average temperature measurement



More information and current pricing:

www.at.endress.com/NMT532

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)

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

Continuous / Liquids**Measuring principle**Servo / Float Tank Gauging

Characteristic / ApplicationHigh precision average temperature measurement

Supply / Communication2-wire (HART)

Accuracy+/- 0.1 °C

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

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

Process pressure absolute / max. overpressure limit0 bar ... 0.5 bar
(0 psi ... 7.25 psi)

Main wetted parts316 SUS

Process connectionDN50 PN 10 RF
ASME 2"150 lb RF

Max. measurement distance18.5 m (60.6 ft)

Communicationdigital HART

Certificates / ApprovalsATEX, FM, CSA, IEC Ex, NEPSI

Continuous / Liquids**Application limits**

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

Thermometer**Measuring principle**

Resistance Temperature Detector

Characteristic / Application

High precision average temperature measurement

Max. immersion length on request

18.5 m (60.6 ft)

Process connection

DN50 PN 10 RF

ASME 2"150 lb RF

Operating temperature range

-20 °C...100 °C

(-4 °F...212 °F)

Max. process pressure (static)

0 bar...0.5 bar

(0 psi...7.25 psi)

Accuracy

+/- 0.1 °C

Ex - approvals

ATEX, FM, CSA, IEC Ex, NEPSI

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