

Average temperature measurement Prothermo NMT539

High precision average temperature measurement



More information and current pricing:

www.au.endress.com/NMT539

Benefits:

- Intrinsically safe device allowing for the safest electrical configuration possible
- Available in four different versions based on customer requirements:
 - Converter only
 - Converter and temperature probe
 - Converter and water bottom probe
 - Converter, temperature and water bottom probe
- Converter is compatible with various element types in third party manufacturer temperature probes
- Compatible with Endress+Hauser's user friendly FieldCare
- Variety of process connections and cable entries available to meet worldwide classifications
- 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** Standard: -40 °C...100 °C Optional: -55 °C...235 °C Water Bottom spec.: -40 °C...100 °C Cryogenic: -170 °C...60 °C
- **Max. immersion length on request** 40 m (131.2 ft)

Field of application: Prothermo NMT539 is an intelligent HART signal converter, with a combined average temperature sensor and water bottom interface probe. For average temperature measurement consists of precision multispot Pt100 elements. The NMT539 is a highly capable solution for constant average temperature data and water interface 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.

Features and specifications

Thermometer

Measuring principle

Resistance Temperature Detector

Characteristic / Application

High precision average temperature measurement, with optional capacitance water bottom sensor

Max. immersion length on request

40 m (131.2 ft)

Process connection

JIS10K 50A RF

ASME 2" 150 lb RF

DN50 PN10 RF

JPI 2" 150 lb RF

Operating temperature range

Standard:

-40 °C...100 °C

Optional:

-55 °C...235 °C

Water Bottom spec.:

-40 °C...100 °C

Cryogenic:

-170 °C...60 °C

Max. process pressure (static)

0 bar...0.5 bar

(0 psi...7.25 psi)

Accuracy

+/- 0.1 °C

Thermometer

Ex - approvals

ATEX, FM, CSA, IEC Ex, TIIS, NEPSI

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