

Average temperature measurement Prothermo NMT81

Precise average temperature measurement



More information and current pricing:

www.ch.endress.com/NMT81

Benefits:

- Precise asset management thanks to up to 24 RTDs
- Corrosion-resistant process parts
- Minimize tank construction cost through 1-1/4" sized nozzle
- Easy installation
- Waterproof and dust proof housing
- Reduced downtime thanks to redundant RTDs processed by a software algorithm

Specs at a glance

- **Accuracy** +/- 0.032 °C (+/- 0.058 °F)
- **Operating temperature range** Options: -40 °C...+75 °C (-40 °F...+167 °F) -55 °C...+235 °C (-67 °F...+455 °F) -196 °C...+100 °C (-321 °F...+212 °F)
- **Max. immersion length on request** up to 100 m (328 ft)

Field of application: Prothermo NMT81 measures the average temperature of a medium and can optionally identify the water level. With an optional 2m long capacitance sensor, the water level is measured continuously delivering current water level information at any time. With its highly precise average temperature measurement, the NMT81 is perfectly suitable for custody transfer and inventory monitoring together with tank gauging such as Proservo NMS80, NMS81, NMS83, Micropilot NMR81, NMR84 and TankSideMonitor NRF81.

Features and specifications

Thermometer

Measuring principle

Resistance Temperature Detector

Characteristic / Application

High precision average temperature measurement up to 100 m (328 ft),

Options:

- Display
 - Sensor probe height adjustment
 - Heartbeat Verification + Monitoring
-

Max. immersion length on request

up to 100 m (328 ft)

Process connection

Flange:

DN50...DN80,

ASME 2"...4",

JIS 10K

Threads:

3/4"

MNPT2

M20

Operating temperature range

Options:

-40 °C...+75 °C

(-40 °F...+167 °F)

-55 °C...+235 °C

(-67 °F...+455 °F)

-196 °C...+100 °C

(-321 °F...+212 °F)

Accuracy

+/- 0.032 °C (+/- 0.058 °F)

Ex - approvals

ATEX, IEC Ex, JPN Ex, INMETRO, NEPSI, KC

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