

# Average temperature measurement Prothermo NMT539

## High precision average temperature measurement



More information and current pricing:

[www.casc.endress.com/NMT539](http://www.casc.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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