

## iTHERM ModuLine TT151

Bar stock thermowell for safe and reliable temperature measurements in heavy duty industrial applications



More information and current pricing:

[www.endress.com/TT151](http://www.endress.com/TT151)

### Benefits:

- TT151 is an industry standard thermowell manufactured from round barstock
- Modular configuration according to DIN 43772, ASME B40.9, NAMUR NE 170 or more flexible as universal version
- Extension, immersion length and total length can be chosen according to process requirements
- Wide range of dimensions, materials and process connections available

### Specs at a glance

- **Max. process pressure (static)** 500 bar (7252 psi) Depending on Configuration
- **Maximum standard immersion length** 1500 mm

**Field of application:** The TT151 thermowell is designed as per DIN 43772, ASME B40.9, NAMUR NE 170 norms or as individual configuration. The robust protection tube ensures safe and accurate measurements in process lines or vessels, shielding temperature sensors from harsh environments. It is drilled and machined from solid bar stock with root diameters from 9 to 50 mm. Tips are available in straight, tapered or stepped form. Process connections include a selection of standard flanges, threads or weld-in versions.

### Features and specifications

Thermowell

Measuring principle

Bar stock Thermowell

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**Thermowell****Characteristic / Application**

metric style  
compliant according to ASME, DIN or NAMUR  
standard  
universal use

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**Head connection**

internal thread:

M14x1,5

M18x1,5

M20x1,5

M27x2

1/2" NPT

1/2" NPSM

1/2" NPSC

G1/2"

G3/4"

M24x1,5 sliding

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**Maximum standard immersion length**

1500 mm

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**Process connection**

To be

threaded

weld in

with flange according to ASME, EN or ISO

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**Thermowell root diameter**

9...50 mm

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**Thermowell****Medium contact material**

Wide selection of materials including:

316

316L

316Ti

347

310

Alloy600

AlloyC276

10CrMo9-10

13CrMo4-5

16Mo3

A105

C22.8

Duplex

Titan Gr.2

316+316L dual rated

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**Wetted part finishing (Ra)**

< 0.8 µm (31.50 µin)

< 1.6 µm (63.00 µin)

DIN Standard

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**Tip shape**

Straight

Tapered

Stepped

partly tapered

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**Temperature range**

-200...1100 °C (-328...2.012 °F)

Depending on Configuration

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**Max. process pressure (static)**

500 bar (7252 psi)

Depending on Configuration

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Thermowell

**Max. process pressure at 400 °C**

depends on process connection and material

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