



Screw-In Resistance Thermometers



measuring
•
monitoring
•
analysing

MWE-1 /-2 /-3



- Measuring ranges:
-70 ... +250 °C
- Bulbs in
stainless steel 1.4404
- Pt 100 sensor
Class F0.15 (A)
Class F0.3 (B)
- Connection: cable
- p_{\max} : 30 bar



T2

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Description

The screw-in resistance thermometers comprise a rugged sensor made of stainless steel with fixed or sliding thread. Depending on the version, the connecting leads are suitable for dry or moist rooms. The junction between connecting lead and protective tube is strain relieved and is fitted with bend protection.

Protective tube and process connection are made of stainless steel. Other materials are available on request.

Pt100 temperature sensors according to IEC 751, class A or class B are used as standard. Other classes or versions are also available with Pt500 and Pt1000. These sensors

are available as single or double resistance thermometers. The screw-in resistance thermometers are available in two-, three- or four-wire circuitry.

Applications

Screw-in resistance thermometers are particularly suited for measuring temperature in liquid and gaseous media.

Areas of application are to be found in heating installation, furnace and apparatus construction, machine construction and building installations as well as in industry in general.

Screw-in Resistance Thermometers

with cable

| Model | Probe diameter (Ø)/length ²⁾ | Process connection | Sensor type | Wiring | Cable material ³⁾ | Option |
|---------------------|--|---|---|--|---|--|
| <p>MWE-1</p> | <p>3¹⁾ = 3 mm 4¹⁾ = 4 mm 5¹⁾ = 5 mm</p> | <p>G06⁴⁾ = G 1/8 male G08 = G 1/4 male G15 = G 1/2 male N06 = 1/8" NPT male N08 = 1/4" NPT male N15 = 1/2" NPT male YYY = special</p> | | | | |
| <p>MWE-2</p> | <p>6 = 6 mm 8 = 8 mm</p> | <p>K08 = compression fitting G 1/4 male K15 = compression fitting G 1/2 male C08 = compression fitting 1/4" NPT male C15 = compression fitting 1/2" NPT male YYY = special</p> | <p>A = 1 x Pt100, class F0.3 (B) (-70...+250 °C) B = 2 x Pt100, class F0.3 (B) (-70...+250 °C) C = 1 x Pt100, class F0.15 (A) (-70...+250 °C) D = 2 x Pt100, class F0.15 (A) (-70...+250 °C) Y = special</p> | <p>2 = 2-wires 3 = 3-wires 4¹⁾ = 4-wires</p> | <p>P = PVC (max. 80 °C) S = silicone (max. 200 °C) T = PTFE (max. 220 °C) E = fiber glass braided (max. 250 °C) Y = other cable material/-length</p> | <p>0 = without Y = special acc. customer's specification</p> |
| <p>MWE-3</p> | <p>0 = connection size dependant</p> | <p>M05¹⁾ = M5 male M08 = M8 male M10 = M10 male YYY = special</p> | | | | |

¹⁾ Only for 1 x PT100 ²⁾ Please specify length »EL« in writing (minimum = 20 mm) ³⁾ Specify cable length in whole meter
⁴⁾ not for tube Ø8 and Ø6

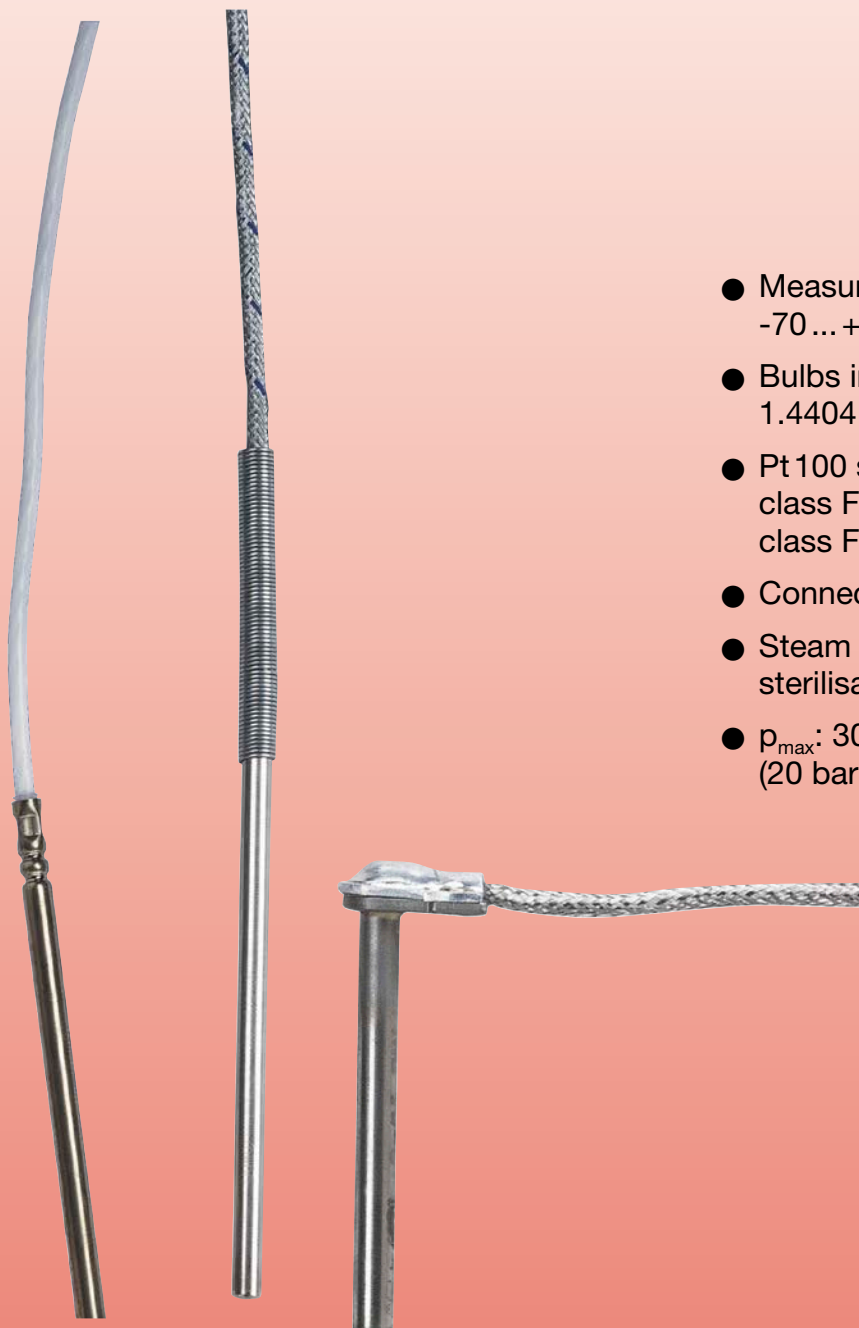


Immersion and Insertion Resistance Thermometers

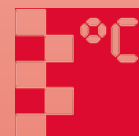


measuring
•
monitoring
•
analysing

MWE-6/-7/-8



- Measuring ranges:
-70 ... +250 °C
- Bulbs in stainless steel 1.4404
- Pt 100 sensor class F0.15 (A) class F0.3 (B)
- Connection: cable
- Steam proof version (for sterilisation processes)
- p_{\max} : 30 bar (20 bar for MWE-6)



T2

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Description

The immersion and insertion resistance thermometers comprise a rugged sensor made of stainless steel. Depending on the version, the connecting leads are suitable for dry or moist rooms. The junction between connecting lead and protective tube is strain relieved.

Pt 100 temperature sensors according to IEC 751, class A or class B are used as standard. Other classes or versions are also available with Pt500 and Pt 1000.

These sensors are available as single or double resistance thermometers. The immersion and insertion resistance thermometers are available in two-, three- or four-wire circuitry.

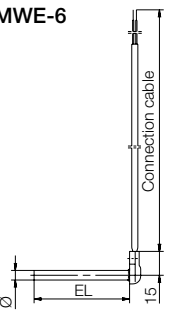
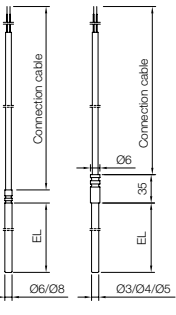
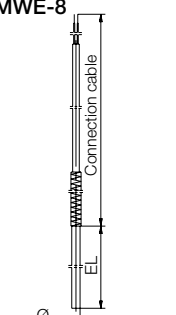
Applications

Immersion and insertion resistance thermometers are particularly suited for measuring temperature in liquid and gaseous media.

Areas of application are to be found in heating installation, furnace and apparatus construction, machine construction and building installations as well as in industry in general.

Insertion Resistance Thermometers

with cable

| Model | Probe diameter (Ø)/ length ²⁾ | Process connection | Sensor type | Wiring | Cable material ³⁾ | Option |
|---|--|--|--|---|--|---|
| MWE-6  | 6 = 6 mm 8 = 8 mm | | | | | |
| MWE-7  | 3¹⁾ = 3 mm 4¹⁾ = 4 mm 5¹⁾ = 5 mm | 000 = without YYY = special | A = 1 x Pt 100, class F0.3 (B) (-70...+250°C) B = 2 x Pt 100, class F0.3 (B) (-70...+250°C) C = 1 x Pt 100, class F0.15 (A) (-70...+250°C) D = 2 x Pt 100, class F0.15 (A) (-70...+250°C) Y = special | 2 = 2-wires 3 = 3-wires 4¹⁾ = 4-wires | P = PVC (max. 80°C) S = silicone (max. 200°C) T = PTFE (max. 220°C) E = fiber glass braided (max. 250°C) Y = other cable material/-length | 0 = without Y = special according customer's specification |
| MWE-8  | 6 = 6 mm 8 = 8 mm | | | | | |

¹⁾ Only for 1 x PT100

²⁾ Please specify length »EL« in writing (minimum = 20 mm)

³⁾ Specify cable length in whole meter