Easytemp TMR35
Hygienic compact thermometer

Compact, fast and precise for the measurement of process temperatures in hygienic applications

Benefits:
- Small, compact design made entirely of stainless steel
- Extremely short response times
- Highly accurate even with short insertion lengths
- 4-wire, Pt100 or PC-programmable transmitter with 4 to 20 mA output
- Configuration and visualization with ReadWin® 2000 PC operating software, which is free of charge
- Breakdown information in event of sensor break or sensor short-circuit, adjustable as per NAMUR NE43
- Hygienic compatible design with 3-A marking and EHEDG certification; Marine approval

Specs at a glance
- **Accuracy** class A acc. to IEC 60751
- **Response time** $t_{50} = 1 \, \text{s} \, t_{90} = 2 \, \text{s}$
- **Max. process pressure (static)** at 20 °C: 100 bar (1,450 psi)
- **Operating temperature range** PT 100: -50 °C ...200 °C (-58 °F ...392 °F)
- **Max. immersion length on request** up to 600,00 mm (23,62")

Field of application: With cost efficiency, optimal use of space, reliable operation, easy commissioning and hygienic design the TMR35 fulfills all the requirements in the Food & Beverage as well as in the Life Science industries. A variety of hygienic process connections leads to a high flexibility.
Features and specifications

Thermometer

**Measuring principle**
Resistance Temperature Detector

**Characteristic / Application**
- metric style
- compact temperature probe
- fast response time
- hygienic design
- hygienic process connection
- with or without neck

**Thermowell / protection tube**
- without (not intended to be used with thermowell)
- to be used with thermowell
- incl. Tee-/elbow thermowell

**Insert / probe**
- pipe version, isolated wires, not flexible

**Outer diameter protection tube / Insert**
- 3,0 mm (0,12")
- 6,0 mm (0,24")

**Max. immersion length on request**
- up to 600,00 mm (23,62")

**Material protection tube/ thermowell**
- 1.4404 (316L)

**Process connection**
- hygienic:
  - conical sealing system G1/2" (metal)
  - clamp connections acc. to ISO 2852 / DIN 32676
  - screwed pipe joint acc. to DIN 11851
  - Varivent
Tip shape
straight

Surface roughness Ra
0,4 μm (16 μin.)
0,8 μm (32 μin.)

Operating temperature range
PT 100:
-50 °C ...200 °C
(-58 °F ...392 °F)

Max. process pressure (static)
at 20 °C: 100 bar (1.450 psi)

Accuracy
class A acc. to IEC 60751

Response time
t50 = 1 s
t90 = 2 s

Integration head transmitter
no (4...20mA Signal)

Certification
3A
Marine approval
UL 3111-1

More information www.us.endress.com/TMR35