

TMR3x

Compact hygienic thermometer

Compact, fast and precise

TMR31 and TMR35 compact temperature probes with best-in-class hygienic design are aimed at applications in the life sciences and the food & beverage industries.

The devices feature outstanding sensor technology for fast, accurate and reliable readings while offering an excellent price/performance ratio and a compact design for optimal use of space, easy installation and commissioning.



Your benefit

Value	Benefit	Feature
Risk and cost reduction	<ul style="list-style-type: none">Quick installation and easy commissioning	<ul style="list-style-type: none">Small, compact design, M12 connector
Increased process safety and control	<ul style="list-style-type: none">Faster detection of temperature changes	<ul style="list-style-type: none">Extremely quick sensor response times
100 % compliance	<ul style="list-style-type: none">Fit for all hygienic applicationsFull device traceabilityTime savings during audit preparation	<ul style="list-style-type: none">International certifications and approvalsLaser-engraved serial number on each deviceCalibration certificate available 24/7 online

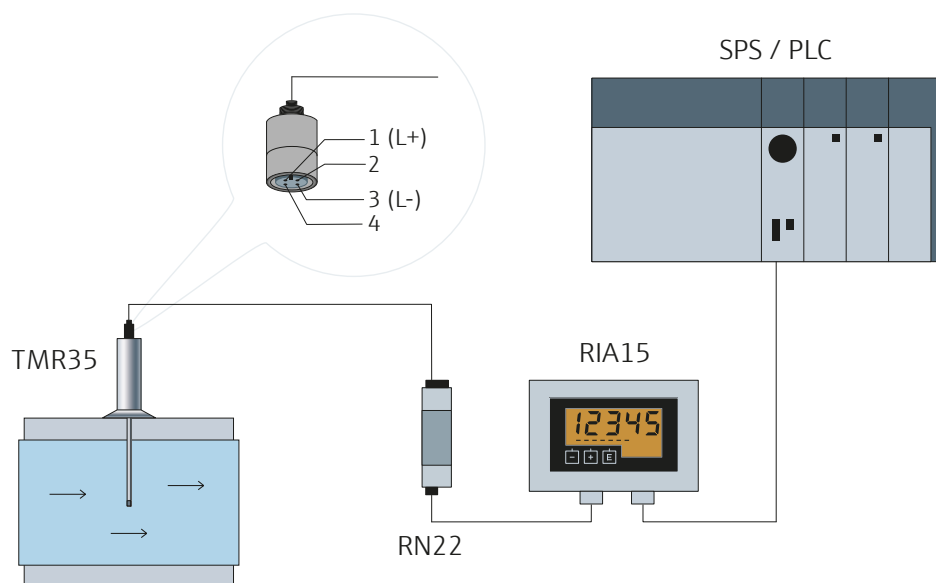
Application

- Specially designed for use in hygienic and aseptic applications in the food & beverage and life sciences industries
- International certifications and approvals: EHEDG, FDA, 3-A, 1935/2004, 2023/2006 (GMP)
- Large choice of sterile and hygienic process connections as standard

TMR3x specifications

- Measuring range: -50 to 200 °C (-58 to 392 °F)
- Pressure range: up to 100 bar (1,450 psi)
- Protection class: up to IP69K
- Communication: analog output 4 to 20 mA
- Response time: $t_{90} = 2 \text{ s}$

System integration



Integrated offering

System component	Feature
Display unit RIA15	<ul style="list-style-type: none"> ■ Display of 4 to 20 mA measured values or HART® process variables ■ Loop-powered; Voltage drop $\leq 1 \text{ V}$ (HART® $\leq 1.9 \text{ V}$)
Active barrier RN22	<ul style="list-style-type: none"> ■ Galvanic signal barrier & transmitter power supply RN22 ■ Front-side HART® connection lugs
Endress+Hauser Service	<ul style="list-style-type: none"> ■ Commissioning service ensures optimal startup ■ Technical experts are always on call to support with product queries ■ Calibration service