

iTEMP TMT71 and TMT72 HART® 7

Temperature transmitter family for all industries

Superior measurement performance and usability

The iTEMP TMT71 and TMT72 HART® temperature transmitters are designed for use across all industries where applications require accurate temperature measurements and long-term stability.

The devices provide valuable additional diagnostic information and features enabling predictive maintenance, contributing to improve process efficiency and increase plant uptime.



Your benefits

Value	Benefit	Feature
Improved process efficiency and plant availability	Efficient and reliable process control	<ul style="list-style-type: none">Long-term stable electronicHighly accurate sensor input and analog output
	Valuable diagnostic information for (predictive) maintenance	<ul style="list-style-type: none">Condensed status according to NAMUR NE 107Advanced diagnostic functions such as corrosion monitoring and undervoltage detection
Improved usability and system integration	On-site device setup and local availability of process values	<ul style="list-style-type: none">Integrated Bluetooth® interface for remote operation via mobile devicesExcellent readability of plug-on display
	Integrative operation with all Endress+Hauser devices	<ul style="list-style-type: none">Uniform and optimized user interface for all toolsUser-guided setup wizardsSelf-explaining operating structures
	Quick and easy system integration for iTEMP TMT72 HART®	Quality gate: Endress+Hauser integration lab ensures seamless integration into all major control and asset management systems
	Time saving device connection	<ul style="list-style-type: none">Push-in terminals for toolless wiring (optional)Laser-printed connection diagram

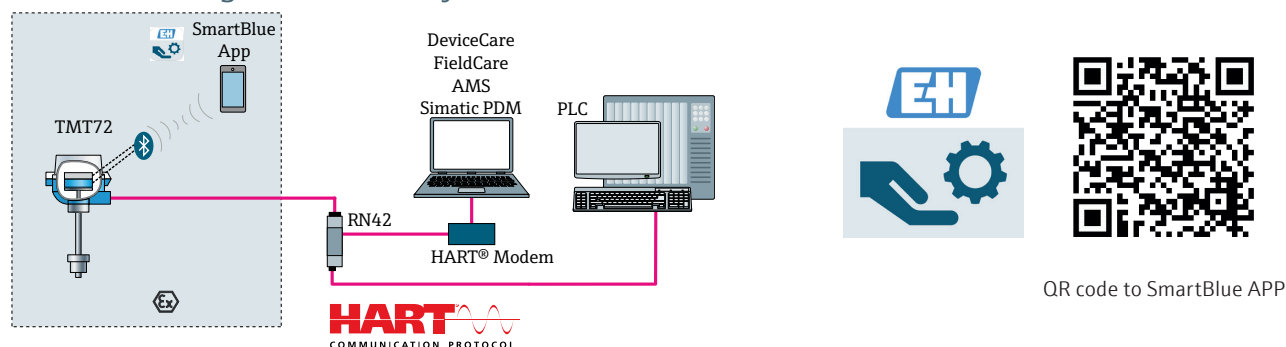
Applications

- Universal temperature transmitter with optional HART® communication for the conversion of various input signals into a scalable, analog 4 to 20 mA output signal
- Installation in terminal head form B, mounting on the DIN rail (DIN rail housing style), field housing
- International certifications and approvals: Ex approvals, radion approvals, CE, DNV GL, NAMUR

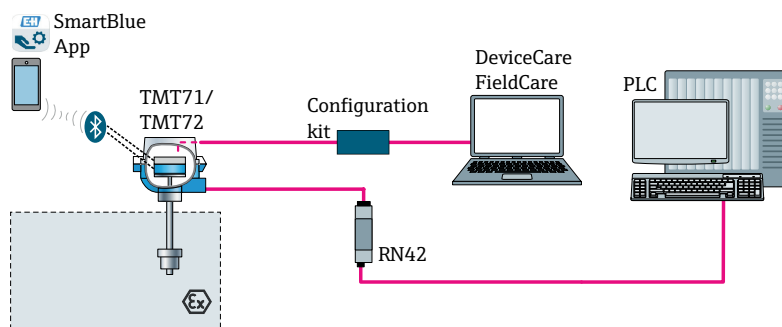
Features and specifications

Sensor input:	RTD, TC, Ohm and mV
Operation and commissioning:	SmartBlue App (Android/iOS) via Bluetooth® DTM via CDI DD/DTM via HART®
Output:	4 to 20 mA, HART® 7 protocol (TMT72)
Power supply:	2-wire device, loop powered, 10 V to 36 V _{DC} (head transmitter); 12 V to 36 V _{DC} (DIN rail)
Approvals:	ATEX, cCSA _{US} , EAC, IECEx, INMETRO, NEPSI, DNV GL
Operating temperature:	-40 °C to +85 °C

Product integration and system architecture



iTEMP TMT72
System architecture for HART® communication



iTEMP TMT71, TMT72: System architecture for PC programmable transmitter

Related offering

Component	Feature
SmartBlue app	<ul style="list-style-type: none"> Mobile, remote access to your device Diagnostics and real-time process information Encoded and secure data transmission
Active barrier RN42	<ul style="list-style-type: none"> Active barrier with integrated power supply Bidirectional HART® transmission for monitoring and diagnostics Compact, side-by-side DIN rail housing International Ex approvals
Thermometer ModuLine iTHERM TM131	High degree of flexibility, modular design