

# 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"> <li>Long-term stable electronic</li> <li>Highly accurate sensor input and analog output</li> </ul>
	Valuable diagnostic information for (predictive) maintenance	<ul style="list-style-type: none"> <li>Condensed status according to NAMUR NE 107</li> <li>Advanced diagnostic functions such as corrosion monitoring and undervoltage detection</li> </ul>
Improved usability and system integration	On-site device setup and local availability of process values	<ul style="list-style-type: none"> <li>Integrated Bluetooth® interface for remote operation via mobile devices</li> <li>Excellent readability of plug-on display</li> </ul>
	Integrative operation with all Endress+Hauser devices	<ul style="list-style-type: none"> <li>Uniform and optimized user interface for all tools</li> <li>User-guided setup wizards</li> <li>Self-explaining operating structures</li> </ul>
	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"> <li>Push-in terminals for toolless wiring (optional)</li> <li>Laser-printed connection diagram</li> </ul>

## Applications

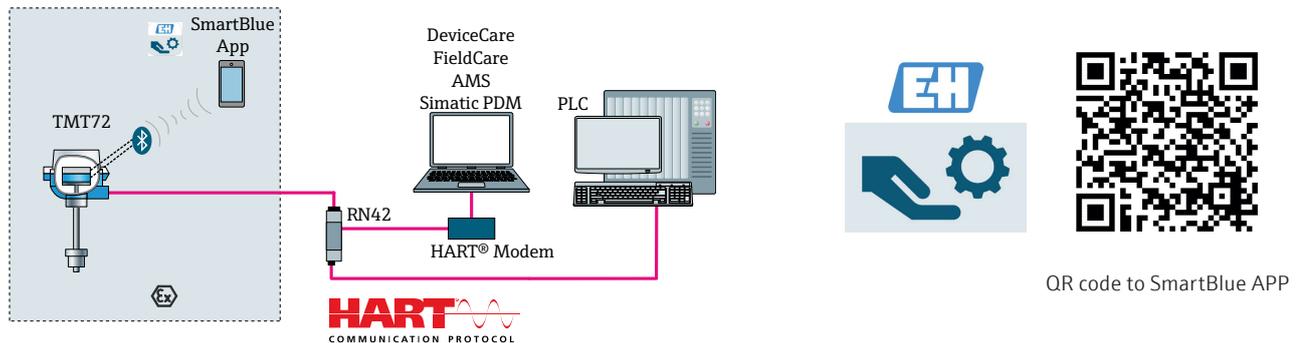
- Universal temperature transmitter with optional HART® communication for the conversion of various input signals into a scalable, analog 4 to 20 mA output signal
- Installation in terminal head form B, mounting on the DIN rail (DIN rail housing style), field housing
- International certifications and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

For more information please visit:  
[www.endress.com/tmt71](http://www.endress.com/tmt71)  
[www.endress.com/tmt72](http://www.endress.com/tmt72)

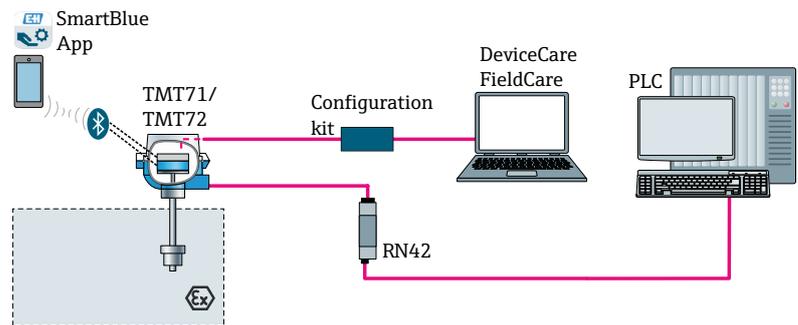
## Features and specifications

<b>Sensor input:</b>	RTD, TC, Ohm and mV
<b>Operation and commissioning:</b>	SmartBlue App (Android/iOS) via Bluetooth® DTM via CDI DD/DTM via HART®
<b>Output:</b>	4 to 20 mA, HART® 7 protocol (TMT72)
<b>Power supply:</b>	2-wire device, loop powered, 10 V to 36 V <sub>DC</sub> (head transmitter); 12 V to 36 V <sub>DC</sub> (DIN rail)
<b>Approvals:</b>	ATEX, cCSA <sub>US</sub> , EAC, IECEx, INMETRO, NEPSI, DNV GL
<b>Operating temperature:</b>	-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"> <li>Mobile, remote access to your device</li> <li>Diagnostics and real-time process information</li> <li>Encoded and secure data transmission</li> </ul>
Active barrier RN42	<ul style="list-style-type: none"> <li>Active barrier with integrated power supply</li> <li>Bidirectional HART® transmission for monitoring and diagnostics</li> <li>Compact, side-by-side DIN rail housing</li> <li>International Ex approvals</li> </ul>
Thermometer ModuLine iTHERM TM131	High degree of flexibility, modular design

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