

# iTEMP TMT86

## Ethernet-APL: Smart, fast, digital

The iTEMP TMT86 is a reliable, intelligent and future proof dual-channel Ethernet-APL PROFINET temperature head transmitter, suitable for use in hazardous areas.

The iTEMP TMT86 temperature transmitter is designed for integration in all standard thermometers. **The focus industry for this transmitter is the chemical industry. Due to its universal usage the transmitter can also be integrated in hygienic thermometers for applications in the Food & Beverage or Life Sciences industries.**

Beneficial diagnostic functions like corrosion monitoring of the sensor wires help to improve the plant up-time. The embedded webserver and the up-to-date FDI package simplify the device configuration and integration.



### Your benefits

Value	Benefit	Feature
Process safety and plant availability	Digital communication down to the field level, even in explosion hazardous areas	<ul style="list-style-type: none"><li>■ Ethernet-APL with PROFINET</li><li>■ Simple Ex planning and validation by 2-WISE (2-wire Intrinsically Safe Ethernet)</li></ul>
	Long-term stability, accurate and precise temperature measurement	<ul style="list-style-type: none"><li>■ Long-term stability of the electronics</li><li>■ Highly accurate sensor input</li></ul>
Functional simplicity	Robust technology which ensures high availability of the process plant	<ul style="list-style-type: none"><li>■ Condensed status according to NE107</li><li>■ PROFINET PA Profile 4</li><li>■ Advanced diagnostic functions like corrosion monitoring</li></ul>
	Save time and effort on commissioning, configuration and maintenance	<ul style="list-style-type: none"><li>■ Easy access to the device in the network - Web server</li><li>■ Local device interface for fast maintenance access – CDI interface</li><li>■ Easy and state-of-the-art device integration – FDI package</li></ul>
	Clear process information in the field	<ul style="list-style-type: none"><li>■ Excellent readability of plug-in display - TID10</li><li>■ Warning / alarm indication</li></ul>

### Applications

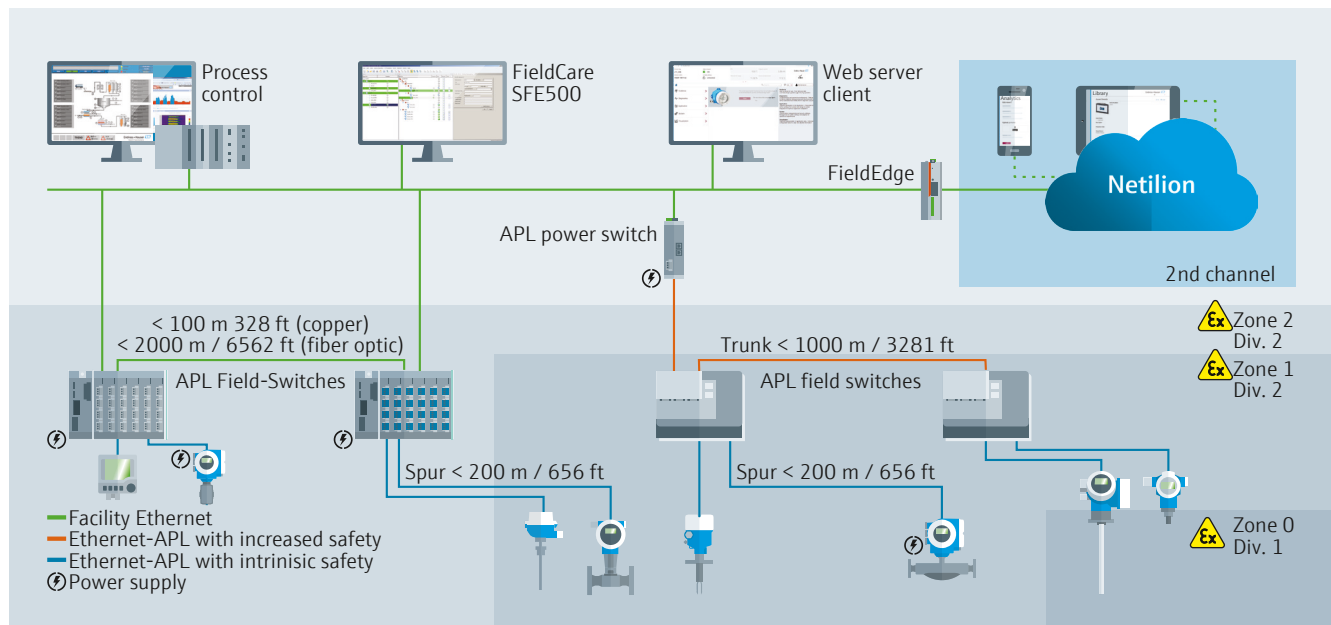
- Universal temperature transmitter with PROFINET communication
- Installation in terminal head form B and field housing
- International certifications and approvals: Intrinsically safe and explosion-proof

For more information please visit:  
[www.endress.com/TMT86](http://www.endress.com/TMT86)

## Features and specifications

Sensor input:	2x RTD, TC, Ohm and mV
Operation and commissioning:	FDI package via PROFINET, DTM via CDI or Webserver, GSD
Output:	PROFINET
Power supply:	Ethernet-APL, 2-wire Ethernet SPE based on 10BASE-T1L (special SPE switch)
Approvals:	2-Wire Intrinsically Safe Ethernet (2-WISE) ATEX, IECEx, NEPSI, cCSAus, UKCA, INMETRO, KC

## System integration and architecture



## Related offering

Component	Feature
Local display TID10	<ul style="list-style-type: none"> <li>Clear information at the measuring point and process</li> <li>Inverse display in case of diagnostic messages</li> <li>Permanent process monitoring or temporary application for service and maintenance work</li> <li>Device configuration via DIP-switches</li> </ul>
Thermometer ModuLine iTHERM TM131	<ul style="list-style-type: none"> <li>High degree of flexibility, modular design</li> </ul>

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