

Temperature measurement

Thermometers and transmitters for the process industry



Temperature transmitters



TMT31

4-20 mA temperature transmitter as head or DIN rail device with one RTD or one TC sensor input suitable for use in zone 2 (Ex ec) / Div. 2 areas



TMT36

IO-Link temperature head transmitter with one RTD sensor input



TMT71

4-20 mA temperature transmitter as head, field or DIN rail device with one universal sensor input suitable for use in hazardous areas



TMT72

HART® temperature transmitter as head, field or DIN rail device with one universal sensor input suitable for use in hazardous areas



TMT142B

HART® temperature field transmitter with one universal sensor input suitable for use in hazardous areas and with Bluetooth® communication



TMT82

HART® temperature transmitter as head, field or DIN rail device with two universal sensor inputs suitable for use in hazardous areas and SIL 2



TMT162

HART®, FOUNDATION Fieldbus™ or PROFIBUS® temperature field transmitter with two universal sensor inputs suitable for use in hazardous areas and SIL 2



TMT84

PROFIBUS® temperature transmitter as head or field device with two universal sensor inputs suitable for use in hazardous areas



TMT85

FOUNDATION Fieldbus™ temperature transmitter as head or field device with two universal sensor inputs suitable for use in hazardous areas



TMT86

PROFINET® temperature transmitter as head or field device with two universal sensor inputs suitable for use in hazardous areas with Ethernet-APL™

Industrial modular thermometers



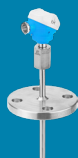
TM101

Fundamental metric RTD/TC direct contact thermometer for a wide range of industrial applications



TM111 / TM112

Metric / imperial RTD/TC direct contact thermometer for a wide range of industrial applications



TM121

Fundamental metric RTD/TC thermometer with protection tube for a wide range of industrial applications



TM131

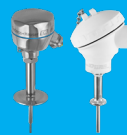
Metric RTD/TC thermometer with protection tube for a wide range of industrial applications



TM151 / TM152

Metric / imperial RTD/TC thermometer with barstock thermowell for a wide range of industrial applications

Hygienic modular thermometers



TM401 / TM402

Fundamental metric / imperial RTD direct contact thermometer for hygienic applications



TM411 / TM412

Metric / imperial RTD thermometer with or without thermowell for hygienic applications

Ambient temperature measurement



TST434B

RTD thermometer for outdoor and indoor ambient temperature measurement

Compact thermometers



TMR31

Metric RTD 4-20 mA compact thermometer for industrial applications



TMR35

Metric RTD 4-20 mA compact thermometer for hygienic applications



TM311

Metric / imperial RTD 4-20 mA / IO-Link compact thermometer for industrial and hygienic applications



TM371 / TM372

Metric / imperial RTD thermometer with self-calibration technology for hygienic applications



TTR31

Metric RTD compact thermometer with switch output for industrial applications



TTR35

Metric RTD compact thermometer with switch output for hygienic applications

Cable probes



TST310

Metric RTD thermometer with connecting cable for use in many process and laboratory applications



TSC310

Metric TC thermometer with connecting cable for use in many process and laboratory applications



TH12

Imperial RTD thermometer with connecting cable for use in many process and laboratory applications



TH52

Imperial TC thermometer with connecting cable for use in many process and laboratory applications



TH56

Imperial TC thermometer with plug connection for use in many process and laboratory applications

High temperature thermometers



TAF11

Metric TC thermometer with robust ceramic thermowell for high-temperature applications



TAF12S

Metric TC thermometer with single ceramic thermowell for high-temperature applications



TAF12D

Metric TC thermometer with dual ceramic thermowell for high-temperature applications



TAF12T

Metric TC thermometer with triple ceramic thermowell for high-temperature applications



TAF16

Metric TC thermometer with metal thermowell for high-temperature applications

Thermowells



TT151 / TT152

Metric / imperial barstock thermowell for a wide range of heavy duty industrial applications



TT131

Metric thermowell for a wide range of applications



TT411 / TT412

Metric / imperial thermowell for hygienic and aseptic applications in the food & beverages and pharmaceutical industries



TT511

Metric thermowell Vanstone Design for applications in the oil & gas industry

Multipoint thermometers



TMS01 Flex

Direct contact TC/RTD temperature profiling solution with 3D-bendable sensors for oil, gas and petrochemical applications



TMS02 Flex

Direct contact TC/RTD temperature profiling solution with 3D-bendable sensors with diagnostic chamber for oil, gas and petrochemical applications



TMS11 Linear

Straight TC/RTD temperature profiling solution with primary thermowell for oil, gas and petrochemical applications



TMS12 Linear

Straight TC/RTD temperature profiling solution with primary thermowell and diagnostic chamber for oil, gas and petrochemical applications



TMS21 Slim

Low invasive bendable TC temperature profiling solution for petrochemical and chemical applications



TMS31 Bundle

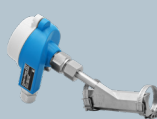
Direct contact TC/RTD temperature profiling solution with flexible metal rope for silos and storage tank applications

Surface thermometers



TST602

Fundamental non-invasive RTD thermometer for basic monitoring applications



TM611

Non-invasive RTD/TC thermometer with high measurement performance for demanding applications



TM691

Metric / imperial TC tube skin thermometer for harsh environments such as fired heaters, reformers, heat exchangers and boilers

System products and data managers – complete your measuring point

False measuring values due to signal interference?

RN series



Measuring device out of reach?

Process indicators



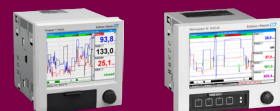
Small automation tasks required?

Process indicators with control unit



Audit upcoming?

Data managers



Want to reduce energy consumption and operate sustainably?

Energy and application managers



Concerned about lightning strikes and power surges?

Surge protective devices



www.endress.com/system-products-data-manager

 Further information



Everything at a glance

Find out everything you need to know about thermometers, temperature transmitters and thermowells

www.endress.com/temperature

 Downloads



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