enelean We Measure

TEMPERATURE TRANSMITTERS



Flow



Pressure



Level



Temperature



Datalogger



Control and **Automation**



RESISTANCE TEMPERATURE TRANSMITTERS

RTD PT100 temperature sensors operate based on the principle that the electrical resistance of platinum changes predictably with temperature variations. As temperature increases, the resistance of the platinum element also increases. This change in resistance is measured accurately and converted into temperature readings using appropriate algorithms or conversion tables. It offers excellent accuracy over a wide temperature range (from -200 to +850 °C)

Resistance Temperature Transmitter (PT100)



ETRANS-T01

Compact Resistance Temperature Transmitter (PT100)



ETRANS-T06 / ETRANS-T07

Smart Type Resistance Temperature Transmitter (PT100)



ETRANS-T03 (ATEX) / ETRANS-T04 (ATEX) ETRANS-T02

Resistance Temperature Transmitter (PT100) Technical Specifications

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Measuring Range	-50+600°C	
Accuracy	±0,1°C	
Process Pressure	Max. 25 barg	
Process Connection	G1/4", G1/2", G1", 1/4" NPT, 1/2" NPT, 1" NPT Male Thread, Clamp and Flange Opt.	
Probe/Housing Material	1.4404 (316L) Stainless Steel / Aluminum	
Sensing Element	PT100 A Class Sensor	
Output	2, 3, 4 Wire PT100 (420 mA with Transmitter)	
Protection Class	IP67	
Special Option	Thermowell Neck Pine Inset	

Compact Resistance Temperature Transmitter (PT100) Technical Specifications

Measuring Range	-50+200°C
Accuracy	±0,1°C
Process Pressure	Max. 25 barg
Process Connection	G1/4", G1/2", G1", 1/4" NPT, 1/2" NPT, 1" NPT Male Thread, Clamp and Flange Opt.
Probe/Housing Material	1.4404 (316L) Stainless Steel / 1.4301 (304) Stainless Steel
Sensing Element	PT100 A Class Sensor
Output	2, 3, 4 Wire PT100 (420 mA with Transmitter)
Protection Class	IP65
Special Option	Thermowell, Neck Pipe, Plug On Display

Smart Type Resistance Temperature Transmitter (PT100) Technical Specifications

Measuring Range	-50+600°C
Accuracy	±0,1°C
Process Pressure	Max. 25 barg
Process Connection	G1/4", G1/2", G1", 1/4" NPT, 1/2" NPT, 1" NPT Male Thread, Clamp and Flange Opt.
Probe/Housing Material	1.4404 (316L) Stainless Steel / Aluminum
Sensing Element	PT100 A Class Sensor
Output	2, 3, 4 Wire PT100 (420 mA with Transmitter)
Protection Class / ATEX Approval	IP67 / II 2 GD EExd IIC T6
Special Option	Thermowell, Neck Pipe, Inset, LCD with 3 Push Buttons



THERMOCOUPLE TEMPERATURE TRANSMITTERS

A thermocouple is a device for measuring temperature. It comprises two dissimilar metallic wires joined together to form a junction. When the junction is heated or cooled, a small voltage is generated in the electrical circuit of the thermocouple which can be measured, and this corresponds to temperature. Thermocouples can be made to suit almost any application. They can be made to be robust, fast responding and to measure a very wide temperature range.

Thermocouple Temperature Transmitter



ETRANS-T01

Bayonet Thermocouple



ETRANS-T10

Temperature Transmitters and Thermowells



TRANS-ENT205 / ETRANS-ENTD148 ETRANS-TW

Thermocouple Temperature Transmitter Technical Specifications

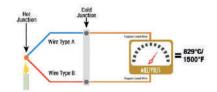
Measuring Range	-200+1260°C
Accuracy	±0,75 % F.S.
Process Pressure	Max. 25 barg
Process Connection	G1/4", G1/2", G1", 1/4" NPT, 1/2" NPT, 1" NPT Male Thread, Clamp and Flange Opt.
Probe/Housing Material	1.4404 (316L) Stainless Steel / Aluminum
Sensing Element	K Type, J Type, E Type, T Type, N Type Thermocouple
Output	2 Wire Thermocouple (420 mA with Transmitter)
Protection Class	IP67
Special Option	Thermowell Neck Pine Inset

Bayonet Thermocouple Technical Specifications

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Measuring Range	-60+350°C
Accuracy	±1°C
Process Pressure	Max. 25 barg
Process Connection	11.5mm I.D. single slot, G1/4", G1/2" NPT (Customized Design)
Probe Material	1.4404 (316L) Stainless Steel, 1.4301 (304) Stainless Steel, Brass, Copper
Sensing Element	J Type, K Type
Output	2 Wire Thermocouple
Protection Class	IP65
Special Option	Plug Connector

Temperature Transmitters and Thermowells Technical Specifications		
Temperature Transmitter Version	Head Type, DIN Rail Type	
Power Supply	1236 VDC	
Input	Resistance Thermometer, Thermocouple	
Output	420 mA / RS485 MODBUS, 010 V (Only with Rail Type)	
Protection Class	IP65 (Head Type), IP54 (Rail Type)	
Thermowell Version	Welded, Drilled, Tapered	
Process Connection	Thread, Clamp, DIN/ANSI Flange	
Material	1.4301 (304) Stainless Steel, 1.4404 (316L) Stainless Steel	

Special Design According to Customer Request



Option