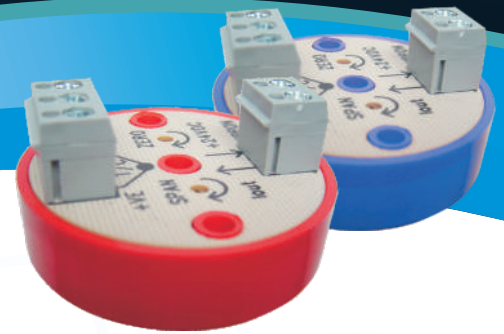


TEMPERATURE TRANSMITTER



2-WIRE TEMPERATURE TRANSMITTER

The PTX-100 is excellent and cost-effective 2-Wire Temperature TRANSMITTER. The design is available in HEAD mounting and DINRAIL housing. The device generates 4-20mA current signal proportional to temperature. The TRANSMITTER operates on loop power supply. The current signal reduces wiring cost drastically. The effect of electrical noise is minimized and long runs of thermocouple wires is eliminated. The housing is shockproof and hermetically sealed.

- 2,3 wire R.T.D. (Pt-100)
- Wide range -200 to +800 °C
- 4-20mA DC current output
- Linearity better than ±1 %
- 10V to 36V DC supply
- Sturdy and accurate

Specifications

Input	Pt-100 (2,3 wire) R.T.D.
Range	-200 to +800 °C, Zero/ Span User adjustable With trimmer potentiometer
Output	4-20mA dc
Accuracy	Better than ±1 %
Ambient Conditions	-20 °C to +80 °C
R.T.D. Break Protection	Provided , current goes to 34 mA if A is open, current goes to 3.6 mA if B or B1 is open.
Maximum Load	Maximum loop resistance $RL = [(V+) - 9V] \div 20mA$ $V+ =$ Loop Power Supply
Reverse Polarity	Protection Provided
Surge Protection	Provided with Zener Clamp
Housing	1) Head Mounting : DIA (d) 42 mm , HEIGHT (h) 27 mm without terminals 2) DIN RAIL Mounting : 75H x 22W x 92D in mm
Application	<ul style="list-style-type: none"> • Industrial Process Control • DCS, SCADA, DATA • Driving Recorders, Panel Indicators • Factory Automation • ACQUISITION • Signal to Computers



NOTES

- Thermocouple Temperature Transmitters are available in model nipponTCTX.
- Input and Range are factory set
- K type thermocouple 0 to +1200 °C
- J type thermocouple 0 to +400 °C
- Humidity-Temperature Transmitters also available

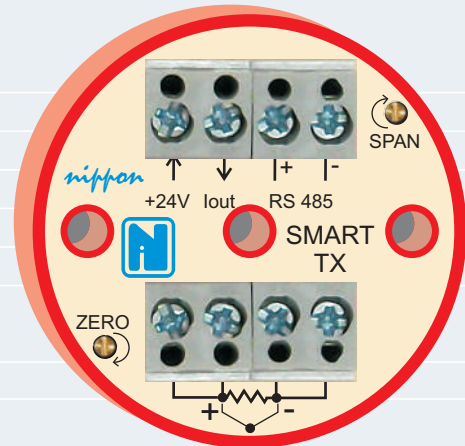
MULTI INPUT TEMPERATURE TRANSMITTERS

The PTXM series is multiple input loop powered temperature transmitter. The device supports different input sensors RTD (Pt100 and Pt1000) and thermocouples (J type and K type). The selection of input sensor device can be configured through the RS485 link from the PC side application.

The PC side application would help the user to configure the device for particular range of input as well as range of current. The application reads the temperature from the device as well. The device transmits the read temperature and current output value to the application.

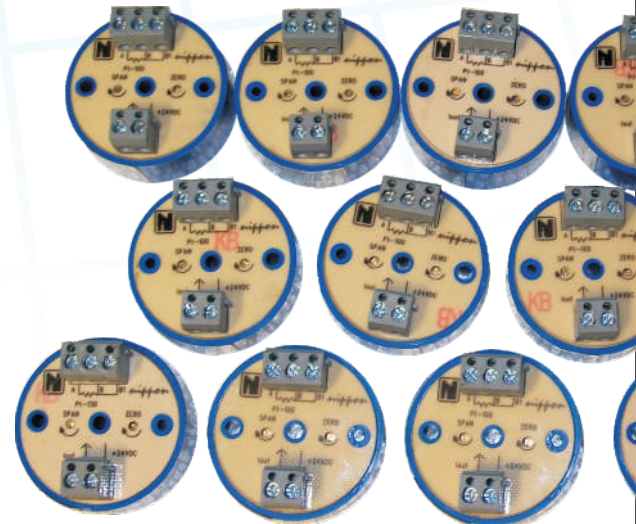
Specifications

Input	Pt100, Thermocouple J type, K Type
Range	For Pt100 -200 to +800 °C, J type 0 to +600 °C K type 0 to +1200 °C
Output	4-20mA DC current output
Accuracy	Linearity better than ± 1 %
Supply	18V to 36V DC supply
Design	Microcontroller Based , Sturdy and accurate
Operating Temperature	-40 °C to +85 °C
Fault Detection	Configurable, Input short for RTD, Input open both for RTD and Thermocouple
Offset	User adjustable with trimmer potentiometer
Auto Calibration and System Calibration	Provided from PC side application
Protections	Reverse polarity and Surge with TVS diode clamp



2-WIRE ISOLATED TEMPERATURE TRANSMITTER

- Isolated transmitters
- 1000/1500 VRMS isolation
- 12-36 VDC power supply
- True 2-wire transmitter
- Ground loop elimination
- DIN RAIL Mounting : 75H x 46W x 110D, mm



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