TXR-01-X

Head / DIN-Rail Mount, Simplex, 2-Wire RTD Pt100/Pt1000 Temperature Transmitters

PPI
The Perfection Experts

Head Mount
TXR-01-H

DIN-Rail Mount
TXR-01-D

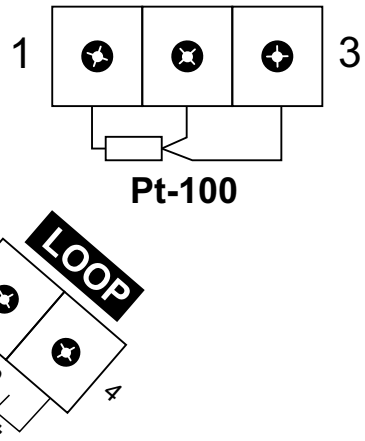
Specifications

Input	
Sensor Type	RTD Pt100 / RTD Pt1000 3-Wire (with lead wire Compensation) 2-Wire (without lead wire Compensation)
Standard Ranges (Customized Ranges Available on Request)	-50°C to +150°C -20°C to +150°C -20°C to +250°C -50°C to +250°C -100ºC to +100ºC 0°C to +400°C 0°C to +300°C 0°C to +200°C 0°C to +150°C 0°C to +250°C 0°C to +100°C 0°C to +50°C
Sensor Connections	Screw Terminals
Adjustment @ Zero	± 1.2% of Range e.g. for 0 to 400°C 0.012*(400°C - 0°C) = ± 4.8°C
Adjustment @ Span	± 12% of Range e.g. for 0 to 400°C 0.12*(400°C - 0°C) = ± 48°C
Linearisation	BS EN 60751(IEC 751) Standard/JISC 1604
Measurement Accuracy	0.1°C ± 0.05% of Reading
Thermal Drift	25 ppm / °C
Excitation Current	< 500 uA
Lead Resistance Effect	0.002°C / Ω
Lead Resistance Compensation	Up to 5Ω per leg
Output	
Output Type	2-Wire, 4 to 20 mA Current Loop
Output Range	4 to 20 mA
Output Connections	Screw Terminals
Maximum Loop Current	24 mA (Sensor Break or Open Condition)
Minimum Loop Current	3.8 mA (Sensor Short / Under Range Condition)
Accuracy	± 6 uA
Maximum Output Load (Approx.)	[(Vsupply - 10) / (0.021)] Ohms Examples : 650Ω @ 24 VDC / 100Ω @ 12 VDC

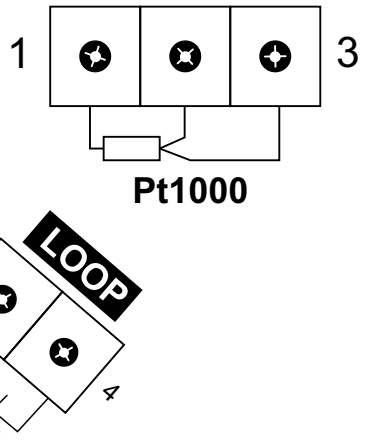
General	
Response Time	82 mS
Supply Voltage	12 to 36 VDC (24 VDC Nominal)
Supply Voltage Effect	± 0.005% of FS per Volt
Isolation	Non Isolated
Environmental *(Ambient)*	
Operating Range	-40 to 85°C (-40 to 185°F)
Storage Temperature	-50 to 90°C (-58 to 194°F)
Humidity Range	10 to 90% RH non-condensing

Electrical Wiring For Head Mount Transmitter

RTD Pt100



RTD Pt1000

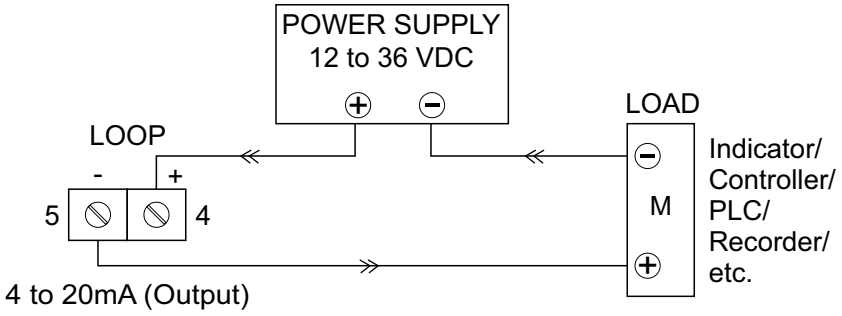


SENSOR WIRING DIAGRAM

For 3-Wire configuration, connect single leaded end of RTD bulb to terminal 1 and the double leaded ends to terminal 2 and 3 (interchangeable).

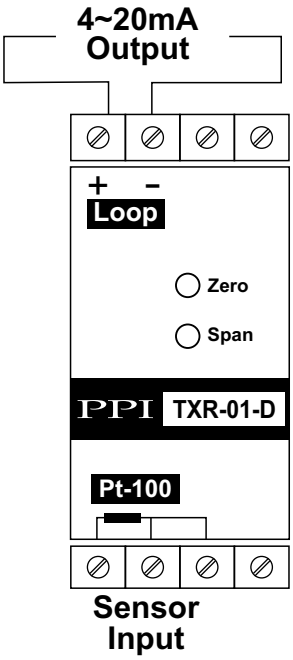
For 2-Wire configuration, connect RTD bulb across terminals 1 & 2 (interchangeable).

LOOP WIRING DIAGRAM

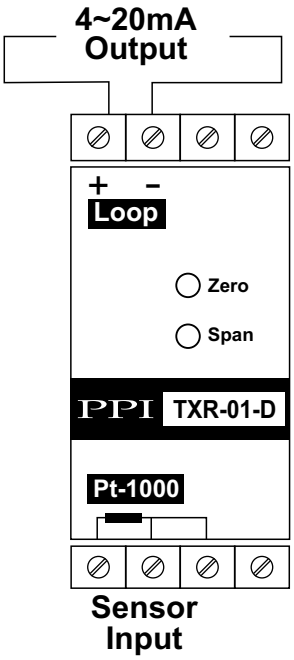


Electrical Wiring For DIN-Rail Transmitter

RTD Pt100

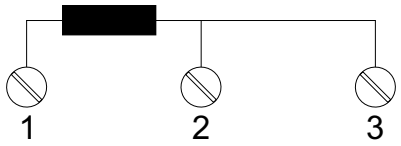


RTD Pt1000



SENSOR WIRING DIAGRAM

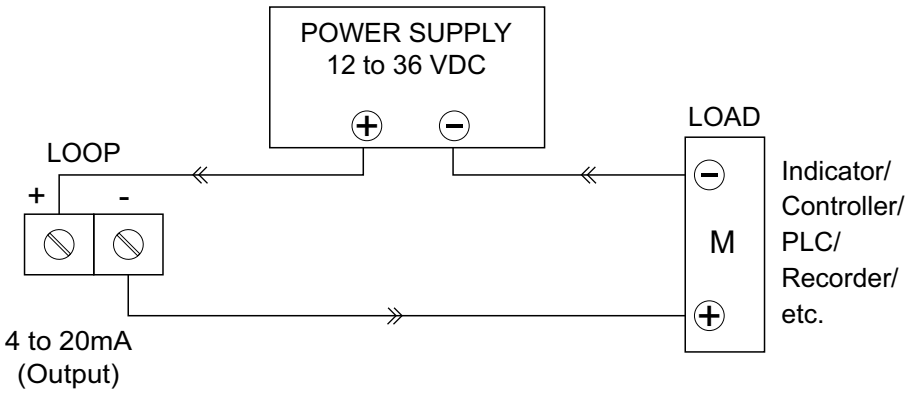
Figure 1



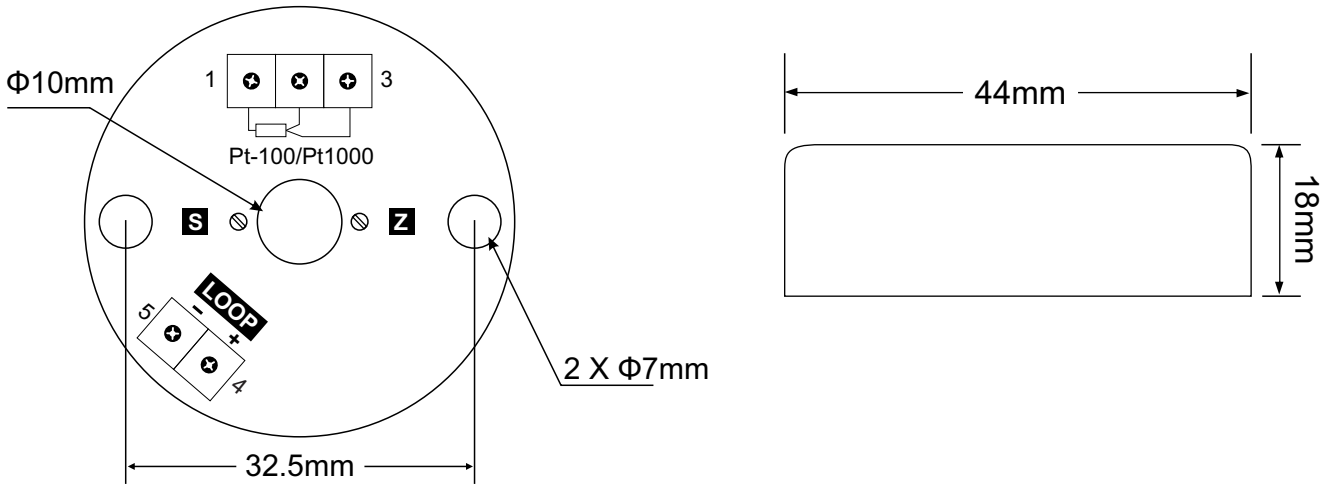
For 3-Wire configuration, connect single leaded end of RTD bulb to terminal 1 and the double leaded ends to terminal 2 and 3 (interchangeable) as shown in Figure.

For 2-Wire configuration, connect RTD bulb across terminals 1 & 2 (interchangeable).

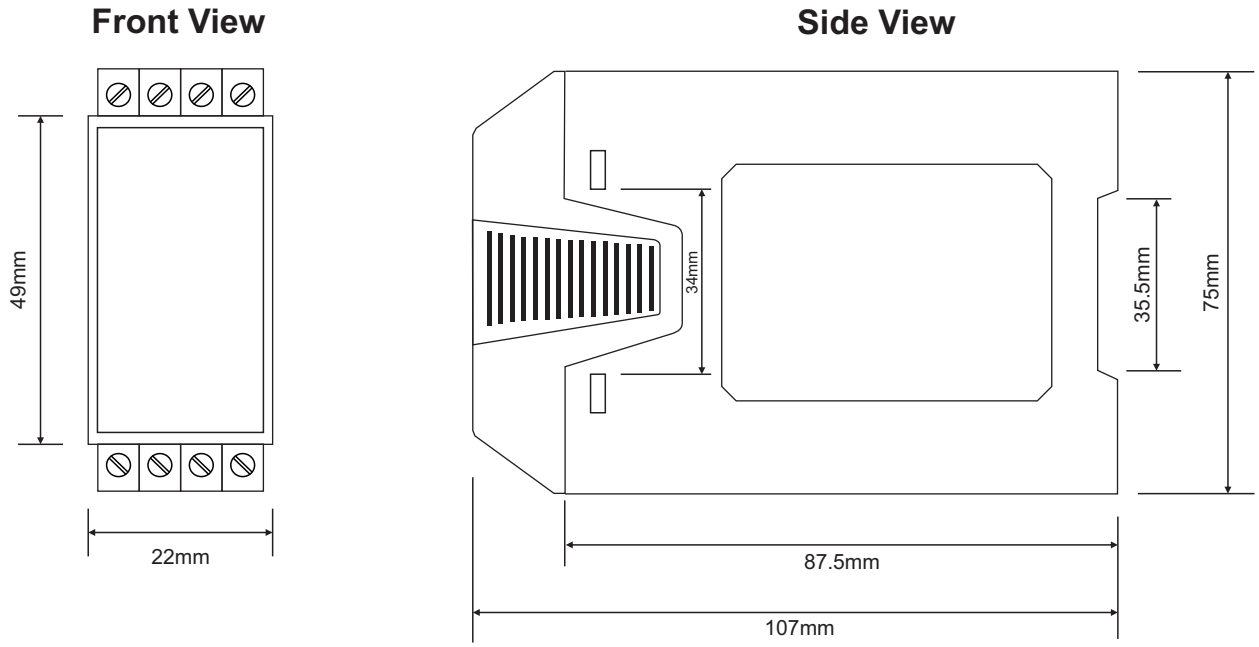
LOOP WIRING DIAGRAM



Mechanical Dimensions for Head Mount Transmitter



Mechanical Dimensions for DIN-Rail Transmitter



Overall Dimensions : 22(W) X 75(H) X 107(D), mm

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