

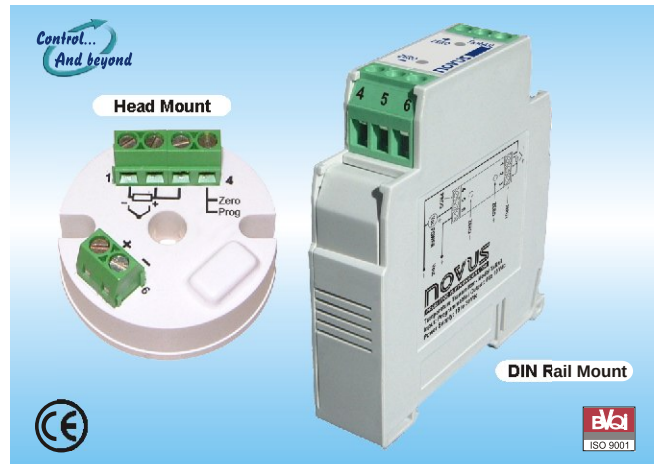
INTRODUCTION

TxBlock is a fully customer programmable head mount temperature transmitter.

In-the-field configuration of input type and working range can be achieved by means of a cable and an RS232 port from a PC or, optionally, from a Palm PDA infrared port.

TxRail represents the utmost technology in DIN rail mount temperature transmitters.

Input type, working range and output calibration can be achieved by means of a cable and an RS232 port from a PC or, optionally, from a Palm PDA infrared port.



FEATURES

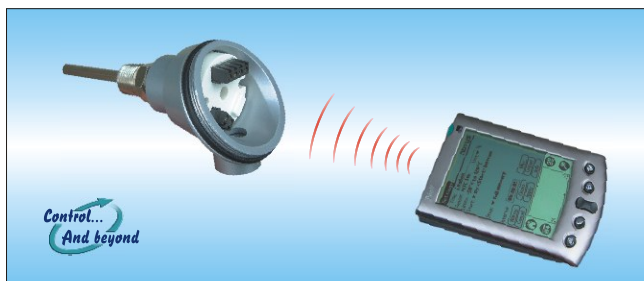
TxBlock and TxRail comprehends a family of head mount and DIN rail mount 4-20mA temperature transmitters for the most common temperature applications.

One single model can be configured to accept several thermocouple types and Pt100 RTDs.

CONFIGURATION

Configuration is achieved by means of an RS232 cable connected to a PC with the convenient configurator software and optionally via an infrared link from a Palm PDA.

CONFIGURATION from a Palm



CONFIGURATION from the PC

File Option Help	
Input Sensor ☐ 0 - 50 mV ☒ Thermocouple K ☐ Thermocouple J ☐ Thermocouple R ☐ Thermocouple S ☐ Thermocouple T ☐ Thermocouple N ☐ Thermocouple E ☐ Thermocouple B ☐ PT 100 (0,00385)	Line Noise Rejection Select Mains Frequency ☐ 50 Hz ☒ 60 Hz Sensor Failure Detection Select Output Action ☒ Downscale ☐ Upscale
Measuring Range Lower Range Value: 0 °C Upper Range Value: 1370 °C Maximum Measuring Range: 0 °C to 1370 °C Minimum Span: 100 °C	Zero Correction 0,3 °C Mín: -68,5 °C Máx: 68,5 °C Device Information Serial Number: 001 22988 Device Firmware Version: 1.00 Model: TxRail Output type: 4 - 20mA
<input type="button" value="Read Device"/> <input type="button" value="Apply"/>	

SPECIFICATIONS

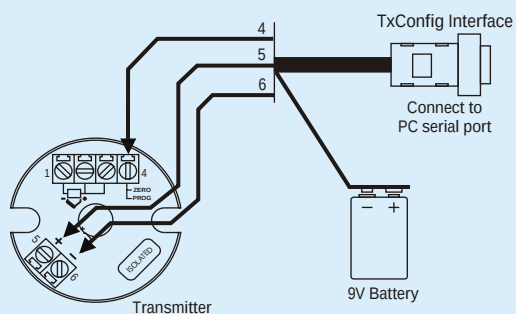
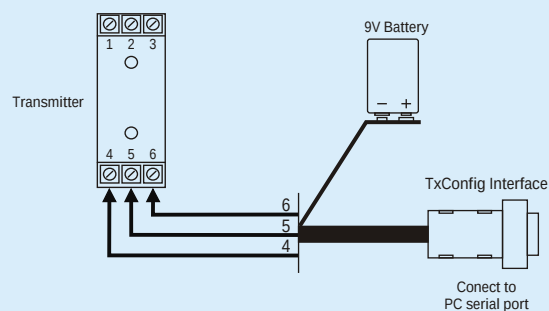
- Programmable input:: thermocouples type J, K, T, E, N, R, S, and Pt100 RTD with programmable working range.
- 2-wire loop powered 4-20mA output.
- Linearized 4 to 20mA or 20 to 4mA output for t/c and Pt100.
- Cold junction compensation for thermocouples.
- Optional 0 to 10Vdc or frequency output for TxRail only.
- 2 or 3-wire Pt100 with linearization.
- Windows configurator or Palm (optional).
- Configuration with a PC via an RS232 cable.
- Configuration with a Palm via infrared port is optional.
- Manual zero (offset) adjustment can be done by means of a wire jumper simulating a keyboard for the TxBlock or with 2 front keys in the TxRail.
- Digital filter can be set for best 50 or 60Hz performance.
- Power supply: 12 to 30Vdc.
- Accuracy: Pt100 and 0 to 50mV $\pm 0.2\%$ full scale. Thermocouples $\pm 0.3\%$ max. of full scale
- Temperature effect: 0.003% SPAN/°C.
- Working temperature: -40 to +85°C (-40 to 185°F).
- Sensor failure protection: programmable burnout upscale or downscale.
- Dimensions:
 - TxBlock: 44mm (Diam.) x 25mm (H including bornes)
 - TxRail: 72mm (H) x 78mm (D) x 19mm (W).

INPUT TYPES AND RANGES

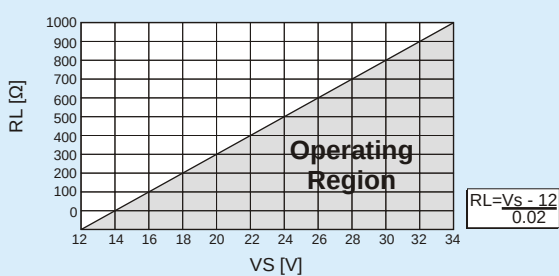
User can easily program input type and temperature range as below:

INPUT	RANGE	MIN SPAN
• Thermocouple K	0 to 1370°C / 32 to 2500°F	100°C
• Thermocouple J	0 to 760°C / 32 to 1400°F	100°C
• Thermocouple R	0 to 1760°C / 32 to 3200°F	400°C
• Thermocouple S	0 to 1760°C / 32 to 3200°F	400°C
• Thermocouple T	0 to 400°C / 32 to 752°F to	100°C
• Thermocouple N	1300°C / 32 to 2372°F	100°C
• Thermocouple E	0 to 720°C / 32 to 1328°F	100°C
• Pt100	-200 to 650°C / -328 to 1202°F	40°C
• Voltage	0 to 50mV	5mV

TxConfig CONNECTIONS

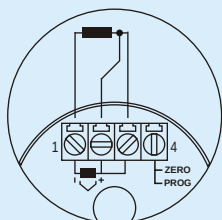
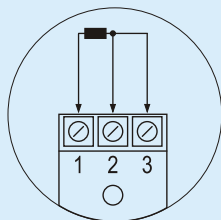


LOAD & POWER SUPPLY

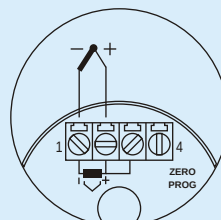
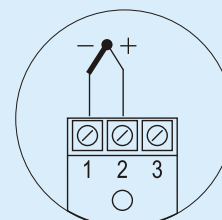


ELECTRICAL CONNECTIONS

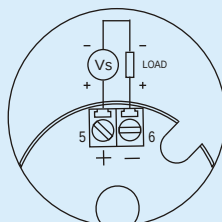
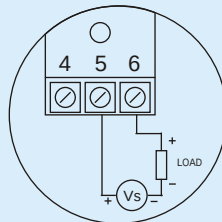
Pt100



Thermocouple

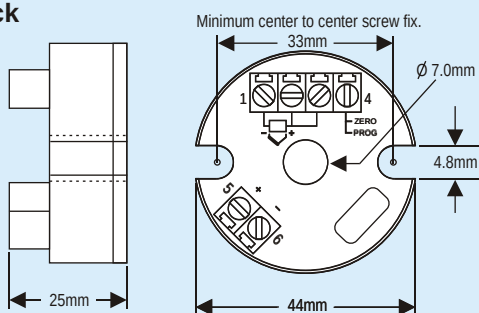


Output



DIMENSIONS

TxBlock



TxRail

