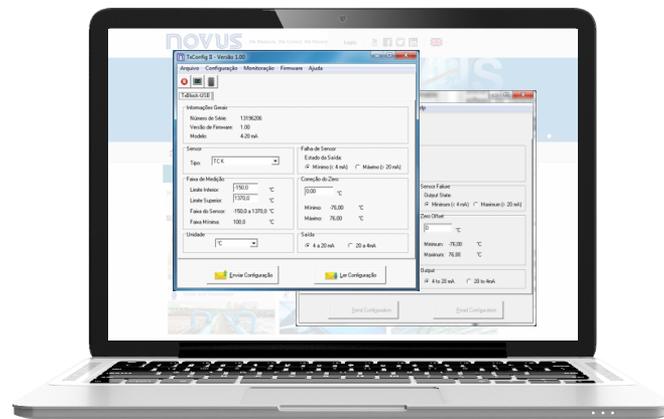# Temperature Transmitter
TxRail-USB

TxRail-USB is a USB configurable DIN rail mount temperature transmitter. It allows selection and configuration of input type, measurement range, output type and calibration. Its output can be set to either loop powered 4-20mA or 0-10V. Highly accurate and user-friendly, the TxRail-USB performs well from simple to sophisticated measurement applications

Features

- Universal input accepts Thermocouples J, K, T, E, N, R, S, B, Pt100, Pt1000, NTC and 0-50 mV
- Configurable measurement range
- Sensor break detection according to NAMUR Ne43 recommendations
- Internal cold junction compensation
- Pt100/Pt1000 connection for 2, 3 and 4 wires
- Accuracy (@ 25 °C): typical 0,1% of span for thermocouple, mV, Pt100 and Pt1000
- Temperature effect $<\pm$ 0,16% @ 25º C
- Configurable output to 4-20 mA loop powered or 0-10 V.
- Output Linearized according to measured temperature
- Output resolution: 4-20 mA output: 2 µA
                     0-10 V output: 2,5 mV
- Power supply: 10 to 35 Vdc (4-20 mA output)
               12 to 30 Vdc (0-10 Vdc output)
- Operating temperature: -40 to 85 °C
- Free Windows® configuration software
- USB micro-B port allows direct PC connection for configuration. USB Class CDC
- Dimensions: 99,5 x 114 x 12,5 mm

Configuration Software

The USB port makes configuration easy. By using an ordinary USB Micro-B cable and **NOVUS** free configuration software the Transmitter can be totally configured and calibrated.

The **TxConfig II** software, required to communicate with the **TxRail-USB** is available for download at www.novusautomation.com.

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