

**INTRODUCTION**

The **TxIsoPack-HART** and **TxIsoRail-HART** are high performance temperature transmitters which convert RTDs, Thermocouples and voltage signals into a 4-20 mA current along with a superimposed HART protocol digital communication.

Complete configuration, calibration and parameters monitoring can be fully achieved through the two-wire current loop by means of a convenient PC software and USB interface called **TxConfig-HART**.

Sensor type input is fully programmable for most relevant RTDs, thermocouples, variable resistors, and voltage in mV.

High Isolation between input and output drastically improves stability and reliability with greater immunity to electromagnetic noises in extremely harsh industrial environments.



**FEATURES**

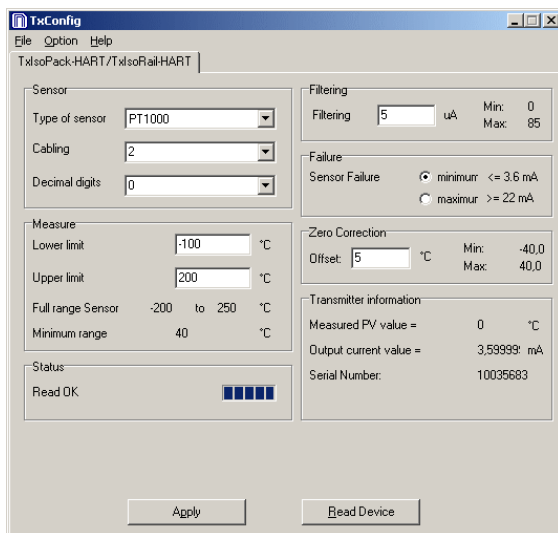
The **TxIsoPack-HART** (for head mounting) and **TxIsoRail-HART** (for DIN rail mounting) are easily programmable devices for the most demanding industrial applications. One single model can be configured to accept RTDs, most thermocouple types and variable resistors.

**SPECIFICATIONS**

- Programmable Input:
  - Thermocouples B, E, J, K, R, S, T, N
  - Pt100, Pt500, Pt1000
  - Cu50, Cu100
  - Ni100, Ni500, Ni1000 (5000 ppm / K)
  - Ni100, Ni500, Ni1000 (6180 ppm / K)
  - 0 to 400Ω, 0 to 2000Ω,
- User programmable working range
- 2-wire loop powered 4-20 mA output
- 2, 3 or 4-wire RTD and thermocouples with linear output
- Cold junction compensation for thermocouples
- Configurator software Windows® (optional)
- Configuration on a PC with the **TxConfig-HART** interface
- Selectable digital filter for input signal
- Power: 10 to 35 Vdc
- Accuracy: Pt100 ±0.2% full scale. Thermocouples ± 0.3% max. of full scale
- Working temperature: -40 to +85°C (-40 to 185°F)
- Programmable sensor failure detection for upscale or downscale
- Resolution: 0.3 μA
- Maximum load:  $(V_{Power} - 10.5V) / 0.022A$
- Galvanic isolation: 1.5 KV

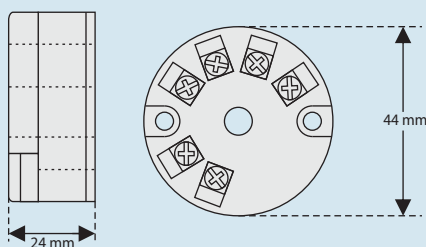
**CONFIGURATION**

Configuration is achieved by means of the configurator software with the **TxConfig-HART** interface connected to a USB port.

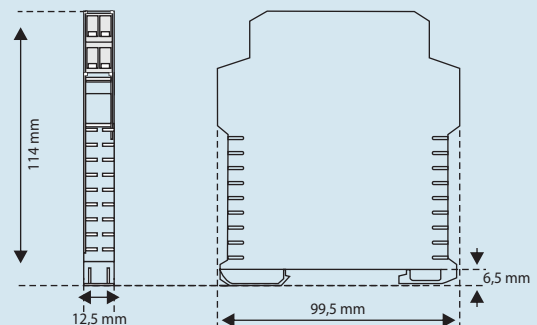


**PC CONFIGURATOR**

**TxIsoPack-HART**



**TxIsoRail-HART**



TEMPERATURE TRANSMITTER C