

HART Temperature Transmitters

TxIsoRail-HRT and TxIsoBlock-HRT



TxIsoRail-HRT



TxIsoBlock-HRT

- Full **compatibility** with worldwide **HART®** devices
- Standardized supervision with **standardized software**
- Fully **configurable** through the **current loop**
- **Galvanic surge protection**

The **TxIsoRail-HRT** and **TxIsoBlock-HRT** temperature transmitters combine the proven quality of **HART®** certification with the robustness of **NOVUS** devices, since they have electrical isolation between input and output, withstand voltage surges up to 1.5 kVrms.

They stand out due to the total flexibility of configuration through the two-wire 4-20 mA loop, allowing more resources for the configuration and the monitoring of the device. In this way, it is possible to perform interactions with the devices remotely, eliminating the need to remove them from the plant to change configuration.

By using a world-renowned protocol with more than 40 million field instruments supporting this technology, **NOVUS TxIsoRail-HRT** and **TxIsoBlock-HRT** temperature transmitters enable the use of standardized **HART®** configuration and monitoring software, providing reliability and flexibility to users.

TxIsoRail-HRT



TxIsoBlock-HRT



Hart Modem
TxConfig-HRT



Desktop or
Notebook



**Flexibility of
Communication**

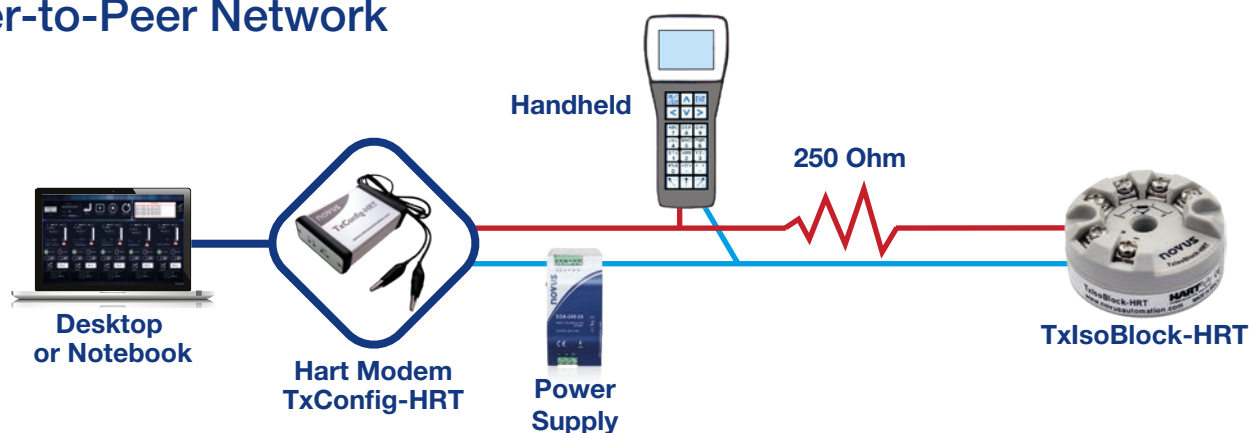
Handheld



Technical Specifications

Input Type	Thermocouples J, K, T, N, R, S, B, E, Pt100, Pt1000, NTC and 0-50 mV	
Precision	Typical:	Maximum:
	Pt1000 / mV: 0.07 % span	Pt1000 / mV: 0.15 % span
	Pt100: 0.08 % span	Pt100: 0.15 % span
	T/C: 0.07 % span ± 1 °C	T/C: 0.15 % span ± 1 °C
	NTC: 0.2 °C	NTC: 0.45 °C
Output Type	4-20 mA	
Output Resolution	0.25 μ A	
Thermal Drift	< 0.05 % / 25 °C	
Input-Output Isolation	1.5 kVrms	
Electrical Protection	Reverse polarity	
Version of HART® protocol	HART V7, compatible with HART V5	
Configuration Interface	Through TxConfig-HRT adapter or Handheld HART® certified	
Software of Configuration	TxConfig II or HART® certified software	
Certifications and Approvals	CE, NAMUR NE43, RoHS, Reach, HART®	
Electromagnetic Compatibility	CISPR 11, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6 and EN 61000-4-8	
Conditions of Operation	-40 to 85 °C / 0 to 90% RH	
Power Supply	Loop powered, 4-20 mA, (8,5 - 36 Vdc)	
Dimensions	114 x 99.5 mm (4.49 x 3.92 in) (DIN rail model)	
	20.5 x 43.5 mm (0.81 x 1.71 in) (head mount model)	
Enclosure	ABS UL94-HB (DIN rail model) Polyamide (head mount model)	

Peer-to-Peer Network



Multi-Drop Network

