



# HART Temperature Transmitters

## TxIsoRail-HRT and TxIsoBlock-HRT

Johannesburg Branch  
MIMIC COMPONENTS  
Cape Town Branch  
Mimic Cape



TxIsoRail-HRT



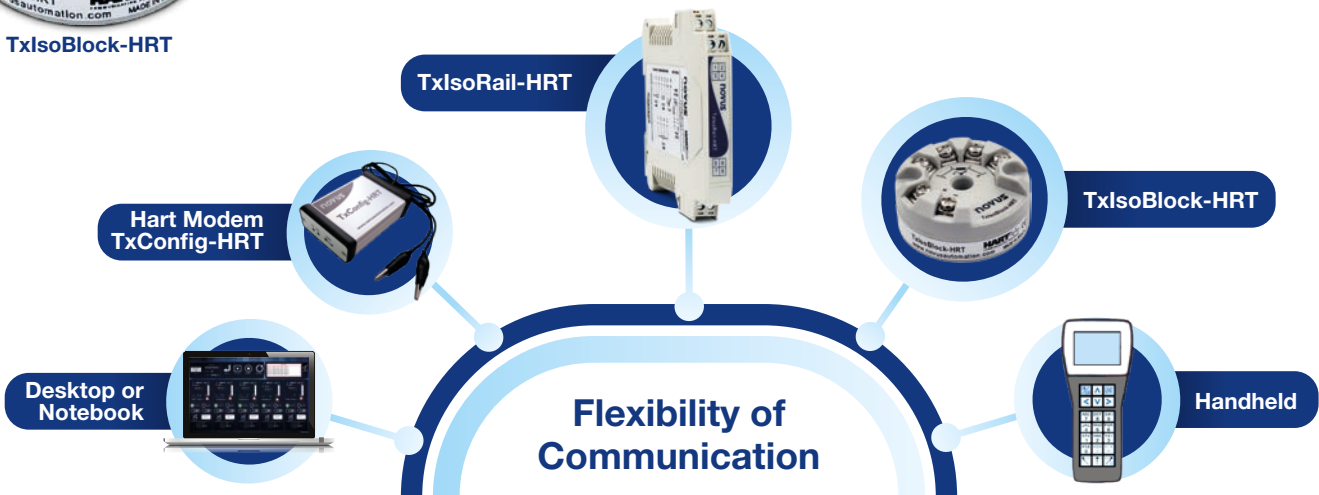
TxIsoBlock-HRT

- 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.

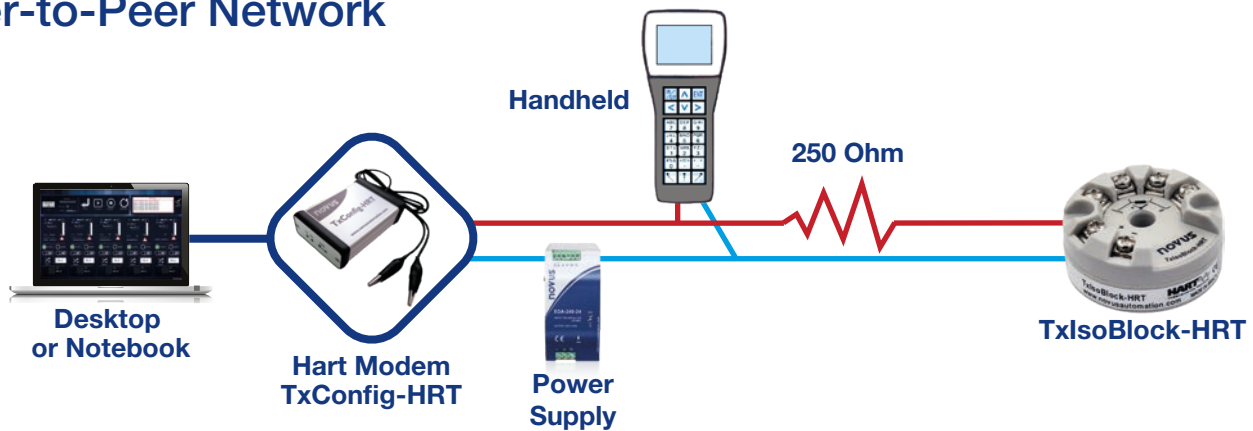
By using a world-renowned protocol with more than 40 million field instruments supporting this technology, NOVUS TxIsoRail-HRT and TxIsoBlock-HRT temperature transmitters enable the use of standardized HART® configuration and monitoring software, providing reliability and flexibility to users.



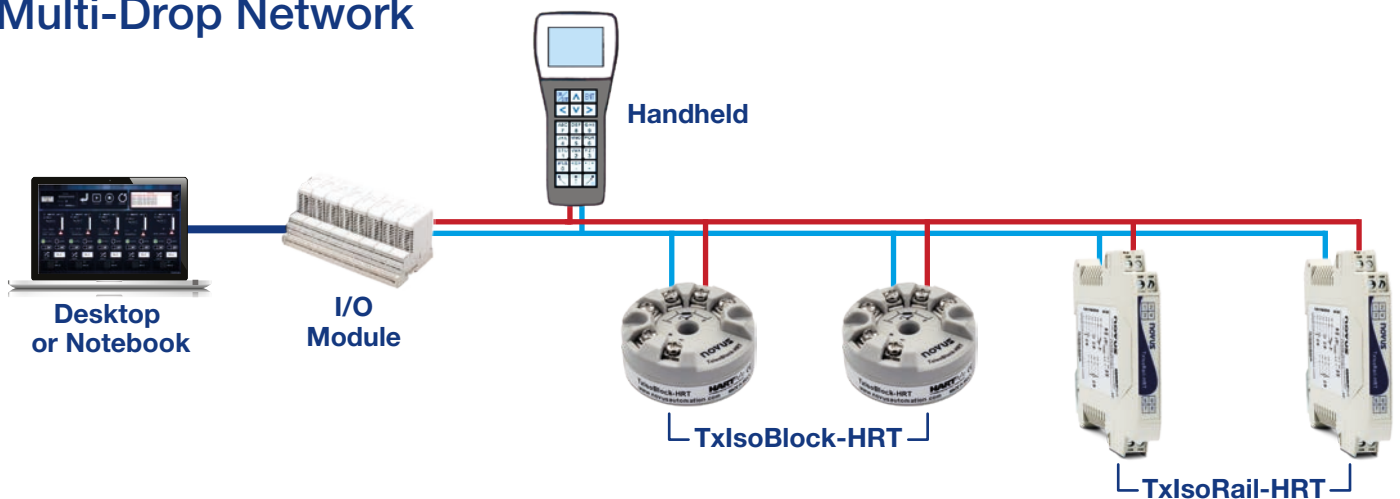
# Technical Specifications

<b>Input Type</b>	Thermocouples J, K, T, N, R, S, B, E, Pt100, Pt1000, NTC and 0-50 mV										
<b>Precision</b>	<table border="0"> <tr> <td>Typical:</td> <td>Maximum:</td> </tr> <tr> <td>Pt1000 / mV: 0.07 % span</td> <td>Pt1000 / mV: 0.15 % span</td> </tr> <tr> <td>Pt100: 0.08 % span</td> <td>Pt100: 0.15 % span</td> </tr> <tr> <td>T/C: 0.07 % span <math>\pm 1</math> °C</td> <td>T/C: 0.15 % span <math>\pm 1</math> °C</td> </tr> <tr> <td>NTC: 0.2 °C</td> <td>NTC: 0.45 °C</td> </tr> </table>	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 $\pm 1$ °C	T/C: 0.15 % span $\pm 1$ °C	NTC: 0.2 °C	NTC: 0.45 °C
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NTC: 0.2 °C	NTC: 0.45 °C										
<b>Output Type</b>	4-20 mA										
<b>Output Resolution</b>	0.25 $\mu$ A										
<b>Thermal Drift</b>	< 0.05 % / 25 °C										
<b>Input-Output Isolation</b>	1.5 kVrms										
<b>Electrical Protection</b>	Reverse polarity										
<b>Version of HART® protocol</b>	HART V7, compatible with HART V5										
<b>Configuration Interface</b>	Through <b>TxConfig-HRT</b> adapter or Handheld HART® certified										
<b>Software of Configuration</b>	<b>TxConfig II</b> or HART® certified software										
<b>Certifications and Approvals</b>	CE, NAMUR NE43, RoHS, Reach, HART®										
<b>Electromagnetic Compatibility</b>	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										
<b>Conditions of Operation</b>	-40 to 85 °C / 0 to 90% RH										
<b>Power Supply</b>	Loop powered, 4-20 mA, (8,5 - 36 Vdc)										
<b>Dimensions</b>	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)										
<b>Enclosure</b>	ABS UL94-HB (DIN rail model) Polyamide (head mount model)										

## Peer-to-Peer Network



## Multi-Drop Network



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