Mimic In-House Article
Subject: HART TxIso Temperature Transmitters
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HART TxIsoBlock-HRT & TxIsoRail-HRT Temperature Transmitters

TxIsoBlock-HRT Temperature Transmitter

TxIsoRail-HRT Temperature Transmitter

Accurate temperature measurement is essential in industries. Applications vary from manufacturing, food, beverage production, to chemical processing, as well as utilities. The TxIsoBlock-HRT and TxIsoRail-HRT Smart Temperature Transmitters simplify this process by converting weak signals from temperature sensors into a stable and reliable 4-20 mA output that can travel long distances without signal loss. This ensures accurate temperature data reaches control systems, even in electrically noisy industrial environments.

The TxIsoBlock-HRT and TxIsoRail-HRT share the same advanced technology and functionality. The key difference lies in their installation method. The TxIsoBlock-HRT is a compact head-mounted transmitter designed to fit directly inside the sensor head in the field, making it ideal for applications where signal conditioning is required close to the sensing point. The TxIsoRail-HRT is a DIN rail-mounted version intended for installation inside control panels and electrical enclosures, providing easy access for maintenance and integration with other automation equipment.

Both transmitters offer universal input capability, supporting Pt100 and Pt1000 RTDs, multiple thermocouple types, NTC sensors, and low-level millivolt signals. HART® communication enables configuration, diagnostics, calibration, and device monitoring through the same two-wire 4-20 mA loop, eliminating the need for additional wiring. With 1.5 kVrms electrical isolation between input and output, both models provide robust protection against voltage surges and electrical disturbances, helping to safeguard valuable control equipment.

Whether you require a head-mount solution or a panel-mount installation, the TxIsoBlock-HRT and TxIsoRail-HRT deliver accuracy, flexibility, and reliable communication.

Contact us today to find the ideal temperature transmitter for your required application and take control of your process performance.

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