prsense

XTD2 Series DIN Rail Mounted Universal Temperature Transmitters - Programmable



XTD2-UNV product insert Rev. 2

AutomationDirect.com

Installation

Dimensions

mm [inches]

- Ambient Temperature: -40 to 185°F (-40 to 85°C)
- Installation area: Installation on DIN rail according to IEC 60715, e. g. in control panel
- Measurement deviates from the maximum accuracy rating when a thermocouple is connected and the internal reference junction is used.

Mount the device vertically and ensure it is oriented correctly!







The height of housing H varies depending on the terminal version: screw terminals = 114 mm (4.49 in), push-in terminals = 111.5 mm (4.39 in)

Mounting the DIN rail transmitter

- 1. Position the top DIN rail groove at the top end of the DIN rail.
- Slide the bottom of the device over the bottom end of the DIN rail until you can hear the lower DIN rail clip click into place on the DIN rail.
- Pull gently on the device to check if it is correctly mounted on the DIN rail. If it doesn't move, the DIN rail transmitter is correctly mounted.

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Wiring



* For convenient installation, wiring plugs are removable.

Note: In the event of a thermocouple (TC) measurement, a 2-wire Pt100 RTD can be connected to measure the reference junction temperature. This is connected to terminals 4 and 6.

Safety instructions:

- To comply with UL61010-1 unit must be supplied by class 2 power supply.
- · Disconnect power before making connections

Shielding

Please take note when installing the transmitter: The shield on the 4-20 mA signal output must have the same potential as the shield at the sensor connections. When using grounded thermocouples, shielding of the output 4 to 20 mA cable is recommended. In plants with strong electromagnetic fields, shielding of all cables with a low ohm connection to ground is recommended.

Due to the danger of lightning strikes it is recommended that shielded cable be used in installations outside of buildings.

Load Impedance



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Programming

Transmitter set-up is done using the Field Device Configurator programming software, available as a free download at <u>www.automationdirect.com</u>, and XT-USB configuration cable (purchased separately). The XT-USB configuration cable should be assigned to a windows communication port from COM1 to COM20 to communicate with the universal temperature transmitter.

Note:

The following tables show the structure of the Field Device Configurator programming software configuration parameters:

Basic Configuration Parameters	Expert Configuration Parameters
Sensor type (TC or RTD)	Output (4-20 mA, 20-4 mA)
Connection mode (2-, 3-, or 4-wire connection/RTD only)	Damping (0-120 sec)
Units (°C, °F, °K, Ω, mV)	Offset (°C, °F, °K, Ω, mV)
Measurement range start (depends on sensor type)	Current trimming (4mA, 20mA)
Measurement range end (depends on sensor type)	
Reference junction (internal/external/fixed - TC only)	Please visit www.automationdirect.com for specifications
Failure mode (Min - 3.6 mA, Max 21.5-23 mA)	additional information.
2-wire compensation (Ω - 2-wire RTD only)	



and