



Series TMA Temperature Transmitter Installation/Operation Instructions

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Precautions

- **Please read the entire manual prior installing this product.** These instructions include information on the TMA series temperature transmitters. Refer to the part number label on the instrument housing to verify the exact model number.
- **User's responsibility:** The TMA series transmitter are designed for use in a wide variety of applications. It is however, the user's responsibility to ensure the suitability of the device with respect to a specific application. Additionally, it is the user's responsibility to ensure the unit is properly installed and tested prior to operation.
- **Proper Installation and Sealing:** Always use a proper thread sealant with all installations. Be sure not to overtighten fittings. Test for leaks prior to operating the instrument.
- **Wiring and Electrical:** Review the specifications on the required supply voltage range and load limit. Ensure that the installation does not exceed these limits. All electrical wiring should be done by qualified personnel.
- **Temperature and Pressure:** Under no circumstances should the maximum ratings of operating temperature and pressure be exceeded. Doing so can result in equipment damage and personnel injury.
- **Material Compatibility:** Ensure that the media contacted parts are made of a material which is chemically compatible with the process media. Ensure that the housing material is compatible with the ambient environment. Failure to do so can result in equipment damage caused by chemical attack.

Electrical Connections:

Electrical connections are made on the DIN-43650 plug supplied with the TMA. The plug can be separated into two pieces and electrical connections are made on the lugs inside the connector.

Use a jacketed, shielded twisted pair cable for all electrical connections.

Pin 1 = 12-36 VDC

Pin 2 = 4-20 mA out

TMA wiring diagram



Specifications

Operating Temp: -200 to +600°C

Ambient Temp: -40°C to +70°C

Sensing Element: Pt100 Class B per DIN 43670

Max. Pressure: 1450 PSIG

Supply Voltage Range: 12-36 VDC

Output: 4-20 mA, 2-wire

Electrical Connection: DIN 43650 plug

Electrical Protection: NEMA 4X/IP 65