M12TX SERIES
Temperature Transmitter
With 100Ω RTD

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WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of 13 months from date of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal one (1) year product warranty to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

If the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. OMEGA'S WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of having been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, include but are not limited to contact points, fuses, and triacs.

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Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

FOR WARRANTY RETURNS, please have the following information available BEFORE contacting OMEGA:
1. Purchase Order number under which the product was PURCHASED,
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems relative to the product.

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M12TX SERIES
Analog PC-programmable 2-wire Transmitter

USER'S MANUAL

CAUTION: For a controlled temperature transmitter, stop a product line at the end of this User's Manual with the permission of Omega.

M12TX SERIES is, by nature, not a product that requires any modification or alteration. Any modification or alteration to this product will void the warranty and may result in hazardous conditions.

M12TX SERIES should not be exposed to any chemicals that may cause corrosion or damage to the device.

CAUTION: Do not use the device in any location that may cause corrosion or damage to the product.

M12TX SERIES is not designed for use in hazardous locations.

M12TX SERIES is designed for use in hazardous locations.

General Information
M12TXC-PT100 is an analog PC-programmable 2-wire temperature transmitter for 2-wire Pt100 input. Configuration is made in seconds with the user-friendly software M12TX-CONFIG and by USB interface. No external power is needed for the device configuration (power supply by USB interface).

M12TXC-PT100 is compatible with operating systems Windows 2000 (SP3), Windows XP (SP2), Windows Vista 32 and 64 bit, Windows 7 32 and 64 bit.

Driver and software installation
Before the device configuration, you should follow the below procedure (for more information, please see the user's manual and the installation guide included in the M12TX-CONFIG application).

1. Install the USB interface drivers
2. Install the configuration software M12TX-CONFIG
3. Connect the interface to a free USB port of your PC, and wait for the automatic hardware installation.

Device configuration
For more information, please see the help file included in the M12TX-CONFIG application (push the key F1 to open the help file).

Following is an introductory guide:
1. Connect the M12TX-CONFIG to a USB port (no external power supply is needed for the device configuration).
2. On the configuration screen, push on icon "Read from transmitter": the software will load the device's configuration.
3. Select the measuring range, the sensor type and the tag if needed (16 alphanumeric characters for device's ID name).
4. The new configuration can be stored on the device's memory by clicking on the icon "Transfer to transmitter". The device makes a restart when downloading is done.

Technical data:

**Dimensions**

- Measuring range: -50°C to 150°C
- Accuracy: ±0.5°C over the entire measuring range
- Sensitivity: 0.5°C/100 ohms
- Power supply: 5 VDC
- Current: 20 mA

**Input**

- Power supply: 5 VDC
- Current: 20 mA

**Output**

- Power supply: 5 VDC
- Current: 20 mA

**Factory default parameters**

- Range: 0°C to 100°C
- Response time: 0.5 seconds
- Temperature range: -50°C to 150°C

**Connections**

- Input: M12 male 4 pins
- Output: M12 female 4 pins