

STANDARD THERMOCOUPLES TYPE-K, -J, -T, -N, OR -E PROBE

TMC-X-A-X



DESCRIPTION

The TMC-x-A-x series products are standard thermocouple probes. Intended to be used in conjunction with our TMC100 and TMC200 thermocouple adapters, they can nevertheless be used with any thermocouple meter or data logger equipped with a 2-pin flat connector. They are supplied with an exposed or shielded junction to suit a wide variety of applications and environments. The cable is protected by Teflon insulation for additional protection.

APPLICATIONS

- OEM
- Industrial production
- Prototypes
- Scientific research
- Building automation
- Engineering and R&D

OPTIONAL LENGTHS

- 1.5 m (5 ft)
- Custom
(Minimum quantities required)

| SPECIFICATIONS | | | | |
|-------------------|-------------------|------------|-------|--|
| Parameter | Condition | Value | Units | |
| TMC-K-A-x | | | | |
| Thermocouple type | – | K | – | |
| Temperature range | – | -73 to 260 | °C | |
| Typical accuracy | – | ±2.2 | °C | |
| Typical accuracy | Typ., -73 to -110 | ±2 | °C | |
| TMC-J-A-x | | | | |
| Thermocouple type | – | J | – | |
| Temperature range | – | -0 to 260 | °C | |
| Typical accuracy | – | ±2.2 | °C | |
| TMC-T-A-x | | | | |
| Thermocouple type | – | T | – | |
| Temperature range | – | -73 to 260 | °C | |
| Typical accuracy | – | ±1 | °C | |
| Typical accuracy | Typ., -73 to -67 | ±1.5 | °C | |
| TMC-N-A-x | | | | |
| Thermocouple type | – | N | – | |
| Temperature range | – | -0 to 260 | °C | |
| Typical accuracy | – | ±2.2 | °C | |
| TMC-E-A-x | | | | |
| Thermocouple type | – | E | – | |
| Temperature range | – | -73 to 260 | °C | |
| Typical accuracy | – | ±1.7 | °C | |
| Typical accuracy | Typ., -73 to -170 | ±1.7 | °C | |

COMMON SPECIFICATIONS

| Parameter | Condition | Value | Units |
|----------------------------|-----------------------|-------|-------|
| Common to all types | | | |
| Cable insulation | Teflon | – | – |
| Connector type | Standard mini male | 2 | pin |
| Response time | t90% | 4 | s |
| Cable length | see available options | – | – |
| Junction type | Exposed | – | – |

ORDERING

PRODUCT(S)

| PART NUMBER | OPTION | DESCRIPTION |
|-------------|------------|---|
| 601107 | TMC-K-A-5 | Type-K thermocouple probe with connector, 5 ft (1.5 m), bare wire |
| 601125 | TMC-T-A-5 | Type-T thermocouple probe with connector, 5 ft (1.5 m), bare wire |
| 601126 | TMC-J-A-5 | Type-J thermocouple probe with connector, 5 ft (1.5 m), bare wire |
| 601127 | TMC-N-A-5 | Type-N thermocouple probe with connector, 5 ft (1.5 m), bare wire |
| 601128 | TMC-E-A-5 | Type-E thermocouple probe with connector, 5 ft (1.5 m), bare wire |
| 601141 | TMC-T-A-10 | Type-T thermocouple probe with connector, 10 ft (3 m), bare wire |

TRACEABILITY CERTIFICATE(S)

| | |
|-------|--|
| NT1WT | 1-point temperature certificate for one (1) unit |
| NT2WT | 2-point temperature certificate for one (1) unit |
| NT3WT | 3-point temperature certificate for one (1) unit |
| NT4WT | 4-point temperature certificate for one (1) unit |

Warning: This product should not be used in applications where its failure may cause personal injury.

Note: While every effort has been made to ensure accuracy in this publication, no responsibility can be accepted for errors or omissions.

Note: Data may change without notification, and you are strongly advised to obtain copies of the most recently issued datasheet.

CAUTION: Keep in mind that electromagnetic interferences (EMI) may adversely reduce the precision of the sensor. Avoid using this unit close to EMI sources such as or, transformers, high voltage and fluorescent light.

TIP: Avoid installing the sensor in a location where considerable vibrations may be present. Large vibrations can introduce extra inaccuracy in the pressure readings.

TIP: As for any precision measurement equipment, it is advised to power on the unit at least 15 minutes before using it.

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