



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 data loggers, 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	

SPECIFICATIONS				
Parameter	Condition	Value	Units	
Common to all types				
Cable insulation	Teflon	–	–	
Connector type	Standard mini male	2	pin	
Response time	With exposed junction	Fast	–	
Cable length	see available options	–	–	
Junction type	Exposed or protected	–	–	

Warning: This product is not designed for use in, and should not be used for, human applications.

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.

ORDERING		
PRODUCT(S)		
PART NUMBER	OPTION	DESCRIPTION
601107	TMC-K-A-5	Type-K thermocouple probe with exposed junction, 5 ft (1.5 m)
601125	TMC-T-A-5	Type-T thermocouple probe with exposed junction, 5 ft (1.5 m)
601126	TMC-J-A-5	Type-J thermocouple probe with exposed junction, 5 ft (1.5 m)
601127	TMC-N-A-5	Type-N thermocouple probe with exposed junction, 5 ft (1.5 m)
601128	TMC-E-A-5	Type-E thermocouple probe with exposed junction, 5 ft (1.5 m)
601141	TMC-T-A-10	Type-T thermocouple probe with exposed junction, 10 ft (3 m)
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	



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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