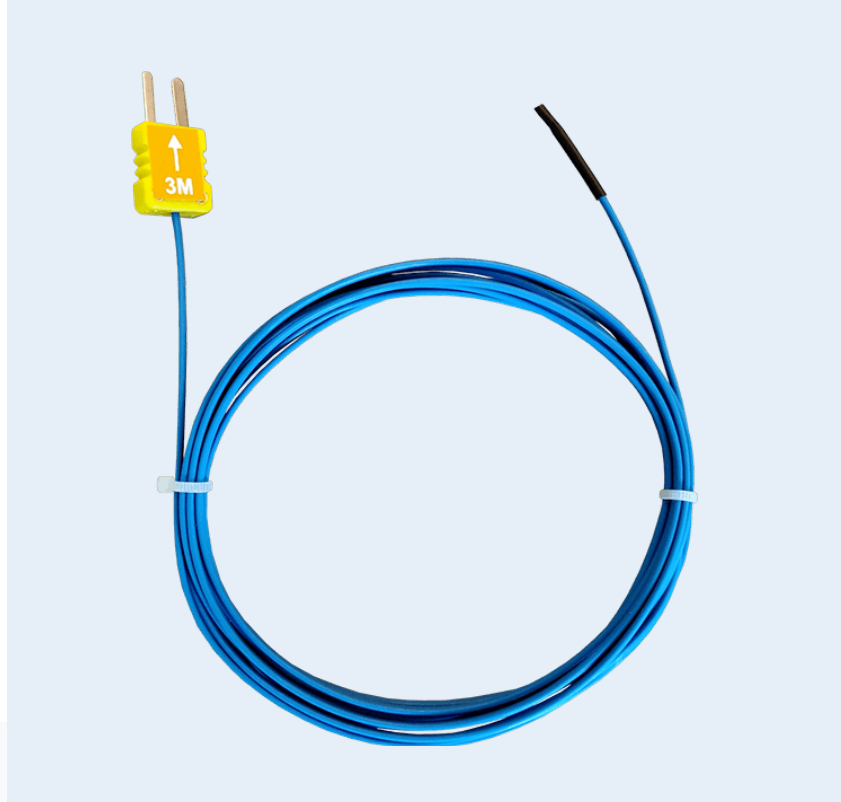


Type K Thermocouple

Probe for Maturix® Temperature
and Strength Monitoring



Overview

The type K thermocouple sensor measures temperature at the tip of the cable and is intended for Maturix® Temperature and Strength Monitoring.

Install the thermocouple, connect it to the transmitter and the temperature data will be sent continuously.

The cable consists of two durable conductors. It is insulated with PTFE (Teflon), which has excellent abrasion, flame and humidity resistance. The cable is designed to be both strong and with high flexibility so that it is suitable for multiple purposes.

The connector is the standard male Type K miniature with flat pins that allows easy connection to the transmitter.

Type K thermocouples are simple to use, versatile, widely available, and cost-effective temperature sensors ideal for concrete monitoring.

✓ Features

- Measure temperature at any position with type K thermocouples
- Industry-standard temperature sensor
- Multiple lengths available
- High resistance and durability

👍 Benefits

- Ideal for concrete monitoring
- Flexible and versatile use
- Cost-efficient temperature & strength monitoring
- Flexible positioning

Maturix® Temperature and Strength Monitoring

Maturix combines durable hardware, smart wireless technology and user-friendly software to a powerful concrete monitoring tool. The system provides in-depth insights into the curing status and shows real-time temperature, maturity and strength data.

Specifications

Temperature Measurements

Range	-25 to 125 °C (-13 to 257 °F) ¹
Tolerance	±1.5 °C (±2.7 °F)
Thermocouple Class	Class 1

Use and Storage

Temperature	-25 to 125 °C (-13 to 257 °F) ¹
Ideal Storage Conditions	Indoor, 20 to 30 °C (68 to 86 °F)

Mechanical Specifications

Cable Length	Ready-to-use cables: 1, 3, 5, 10 meters Self-assembly roll: 100 meter
Cable Shape	Flat pair
Cable Thickness	2.5 x 1.5 mm (0.1 x 0.06 in)
Connector Thickness	7/0.12, 0.2 mm ²
Connector Dimensions (L x W x H)	32 x 17 x 8 mm (1.26 x 0.67 x 0.31 in)
Connector Type	Miniature, type K, male, flat pins
Materials	Cable, conductors: Ni-Cr / Ni-Al Cable, jacket: Teflon/PTFE (blue) Cable, tip protector: Polyolefin (black) Connector, ready-to-use: Nylon (yellow) Connector, self-assembly: Nylon (green)

Models

Ready-to-Use Sensors

Part No.

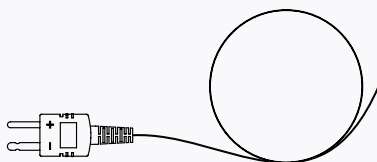
31001-010	Thermocouple, type K, 1m - 10pcs.
31001-100	Thermocouple, type K, 1m - 100pcs.
31003-010	Thermocouple, type K, 3m - 10pcs.
31003-050	Thermocouple, type K, 3m - 50pcs.
31005-005	Thermocouple, type K, 5m - 5pcs.
31005-025	Thermocouple, type K, 5m - 25pcs.
31010-001	Thermocouple, type K, 10m - 1pcs.
31010-010	Thermocouple, type K, 10m - 10pcs.

Self-Assembly Parts

Part No.

31100-001	Thermocouple, type K, 100m wire (Cable roll for self-assembly)
32005-010	Thermocouple Connector, type K, custom connector (Miniature type K male connector)
36000-001	Heat-Shrink Tubing, 10m (Shrinkable plastic tube to insulate thermocouple tip)

HS Code 8517 6990 00



¹Can be extended to 250 °C without the tip protector. The tip must not be in contact with conducting materials like metals.