

TECHNICAL DATA SHEET

Maturix Smart Concrete Sensors



Type K Thermocouple

Product Code: S-801, S-803, S-805, S-810

DESCRIPTION

The Type K thermocouple is an industry standard thermocouple that fixed to the reinforcing steel before being embedded into the concrete and plugged into the Maturix Smart Concrete Temperature Sensors. It consists of durable insulated conductors that have been soldered together and include the standard male Type K miniature flat pin connector.



FEATURES & BENEFITS

- Durable, reliable and accurate
- Wide measurement range
- Different cable lengths
- Isolated, welded tip
- Quick to connect to Orbit K sensor
- Low cost

PROPERTIES

Tolerances	±1.5 oC
Tolerance Class	Class 1
Measurement Range	-25 to 125 oC
Operating Temperature	-30 to 50 oC (connector + Maturix Sensor)
Material - Conductors	Nickel-Chromium/Nickel-Silicide
Material - Jacket	PTFE (Teflon), blue
Material - Tip Protector	Polyolefin, black
Material - Connector	Nylon, yellow
Connector Type	Type K, miniature, male, flat pins
Connector Dimensions	32 x 17 x 8 mm (L x W x H)
Conductor Thickness	7/0.12 (0.2 mm ²)
Cable Shape	Flat pair
Cable Lengths	1 meter, 3 meters, 5 meters, 10 meters