

**FSTC03-** Our FerroSafe series thermocouples are designed to meet extensive requirements of ferrous and Non ferrous molten metal industry. These thermocouples come with heavy duty metal sheath coated with our internally developed coating with non wetting properties. Thermocouples are manufactured using Type K and N thermocouple wire and meet the class 2 and class 1 accuracy requirements. Ergonomic design handle for easy handling.

## Key Feature:

- Heavy metal sheath with Ceramic Coating for longer thermocouple life in molten Metal
- Exhibits faster response time with thermal conductive coating makes it ideal for process control applications.
- Mostly available with multiple thermocouple calibrations like type K, N.
- Reduced Tip for Quick response.
- Ergonomic handle design.

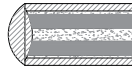
**Response Time : < 8 Sec**

**Maximum Temperature : 900°C (1600°F)**

**Temperature Accuracy As per**

ASTM E608/608M/ IEC 60584 & ANSI MC 96.1 standard tolerances  
±2.2°C or 0.75% of Reading whichever is greater

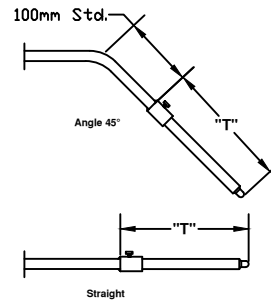
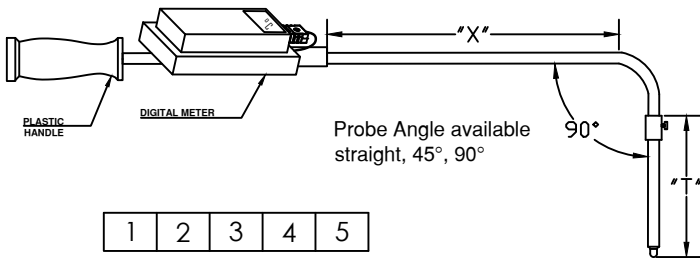
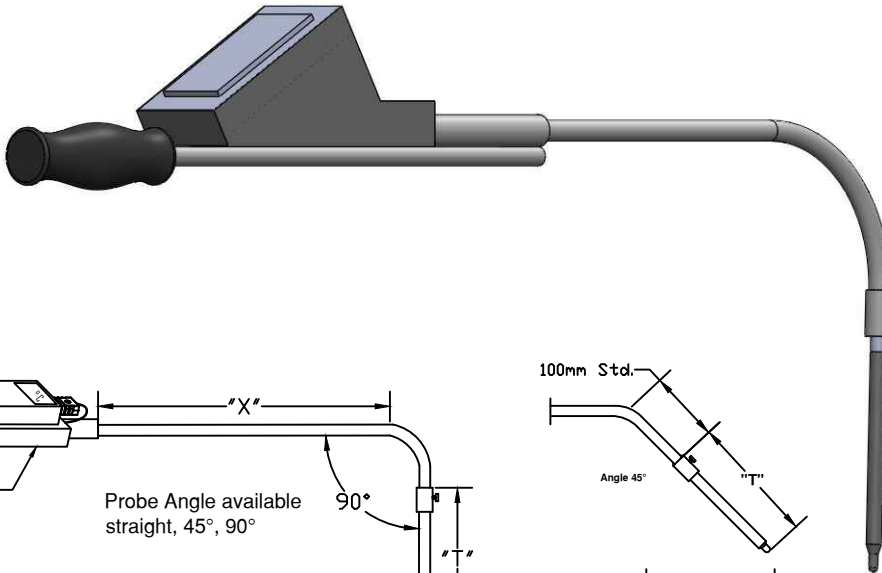
## Thermocouple Junction options for FSTC03



**Grounded Junction:** In grounded junction thermocouple wires and sheath of the mineral insulated cable is welded together to form a junction. Thermocouple wires and sheath becomes an integral part of the junction. Thus, the wire is grounded to the sheath.

## Key Benefits:

- Slower response than Exposed junction, but offers rugged construction.
- Can hold higher pressure than exposed junction and Ungrounded junction.



1	2	3	4	5
FSTC 03	K	12	0	12i 55i

## 1. CALIBRATION

CODE	
K	Chromel(+) vs Alumel(-)

## 2. PROBE ANGLE

CODE	
0	Straight
45	45° Bend
90	90° Bend

## 3. TIP LENGTH "T"

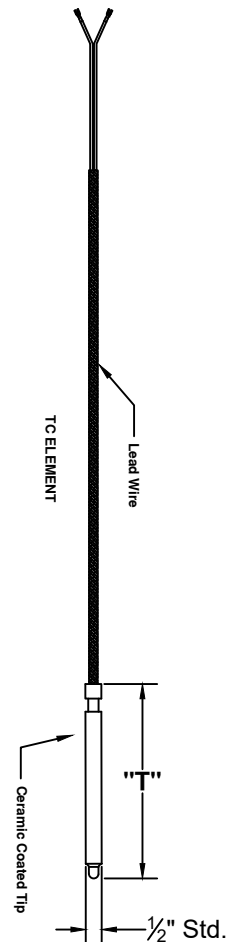
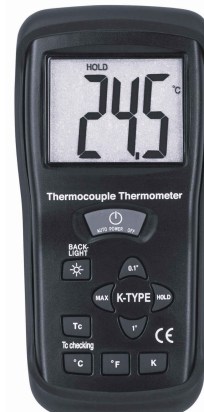
IMPERIAL SIZE INCH	METRIC SIZE MM
8	203
12	304
18	457
24	610
Other Length available on request	

## 4. EXTENSION LENGTH (X)

IMPERIAL SIZE INCH	METRIC SIZE IN MM
31	787
43	1092
55	1397
72	1829
96	2438
120	3048
Other Length available on request	

## 5. TEMPERATURE INDICATOR

CODE	
0	Not Required
01	Std. Single Ch. Reader



**Replacement Element**  
See FSTC-02 to Order