HHTC-2 Hand Held Thermocouple Probe with Plastic Handle

TEMPERATURE SENSOR

HHTC-2: A handheld thermocouple is a portable temperature-sensing device designed for convenient use in different environments. It typically includes a thermocouple probe, an ergonomic handle, and either a digital or analog display for reading temperatures. Available in various types, such as Type K, J, T, N and E, these thermocouples are suited for specific temperature ranges and applications.

Key Feature:

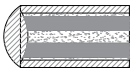
- Compact and easy to carry for on-the-go temperature measurements.
- Exhibit faster response time and accurate temperature readings in real-time.
- Compatible with multiple types of thermocouple probes (surface, immersion, air or penetration) for versatile applications.
- Specially designed for comfortable and secure gripping, often made from heat-resistant and rugged materials.
- Available thermocouples like Type K, J, T .
- Available in IEC 60584 & ANSI MC 96.1 standard tolerances

Response Time : 1.1 Sec
Maximum Temperature : 900°C (1600°F)

Temperature Accuracy As per
ASTM E608/608M/ IEC 60584 & ANSI MC 96.1 standard tolerances

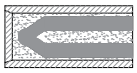
Type	Temperature	Standard Limit	Special Limit
T	-200 °C to 0 °C	± 1 °C or 1.5% Whichever is greater	N/A
	0 °C to 350 °C	± 1 °C or .75% Whichever is greater	± 0.5 °C or 0.4% Whichever is greater
J	0 °C to 750 °C	± 2.2 °C or .75% Whichever is greater	± 1.1 °C or 0.4% Whichever is greater
E	-200 °C to 0 °C	± 1.7 °C or 1.0% Whichever is greater	N/A
	0 °C to 900 °C	± 1.7 °C or .5% Whichever is greater	± 1 °C or 0.4% Whichever is greater
KORN	-200 °C to 0 °C	± 2.2 °C or 2.0 % Whichever is greater	N/A
	0 °C to 1250 °C	± 2.2 °C or .75% Whichever is greater	± 1.0 °C or 0.4% Whichever is greater

Thermocouple Junction options for HHTC2



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.



Ungrounded Junction: Junction is similar to grounded junction except wire are fuse welded, which is then insulated with Mgo powder and formed cap by welding without incorporating thermocouple wires. Thus, the junction is called the ungrounded junction.

Key Benefits :
· Wires are protected from any mechanical damage
· Offers rugged construction, the same as the grounded junction.
· Strain due to differential expansion between wire and sheath is minimized with insulated wires.

	1	2	3	4	5	6	7	8	9	10	11
HHTC2											

For Example- HHTC2-K-G-4M-8-ST-0-6i-0-2-72i-MP

1. THERMOCOUPLE TYPE	
CODE	
K	Chromel(+) vs Alumel(-)
Use "S" for Special limit of Error	

2. MEASURING JUNCTION	
CODE	
G	Simplex / Grounded Junction
UG	Simplex / Un- Grounded Junction

3. SHEATH OD		
CODE	IMPERIAL SIZE	METRIC SIZE
3M	0.197"	5.0mm
4M	0.236"	6.0 mm

4. SHEATH MAT.	
CODE	
8	SS 316

5. TIP Style	
CODE	
ST	Standard
SH	Sharp
Note: Sharp tip only available for T/C without protection tube	

6. PROTECTION TUBE	
CODE	
01	Not Required
02	Required

7. IMMERSION LENGTH (I)
Immersion length- Use "I" for inches and "M" or millimetre

8. PROTECTION TUBE LENGTH (X)	
CODE	
0	Protection tube not required
Protection tube length- use "I" for inches and "M" or millimetre	

9. WIRE TYPE/STYLE		
CODE	STYLE	TYPE
1	Straight	PVC (105° C)
2	Straight	TEFLON (205° C)
6	Straight	TEFLON (260° C)
7	Coil Cord	Polypropylene (PP) (80° C)
NOTE:- Add "X" for SS braiding (Not applicable to coil cord)		

10. LEAD LENGTH (L)
Lead length- use "I" for inches and "M" for millimetre
USE **"24I"** for coilcord wire (Maximum extended length for coilcord is 14 ft)

11.CODES FOR TERMINATION	
CODE	
Z	Bare ends
STP	Standard Plug
MP	Miniature Plug