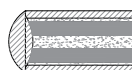


HHTC-1 A handheld thermocouple is a portable temperature-sensing device designed for convenient use in different environments. It typically includes a thermocouple probe, an ergonomic handle, and either a digital or analog display for reading temperatures. Available in various types, such as Type K, 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

Thermocouple Junction options for HHTC-1



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.

Response Time : 1.1 Sec

Maximum Temperature : 510°C (950°F)

Thermocouple Type	°C (F)
	3/16" OD
T	370 (700)
J	510(950)
K	510 (950)
N	510 (950)

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 0 °C to 350 °C	± 1 °C or 1.5% Whichever is greater ± 1 °C or .75% Whichever is greater	N/A ± 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 0 °C to 900 °C	± 1.7 °C or 1.0% Whichever is greater ± 1.7 °C or .5% Whichever is greater	N/A ± 1 °C or 0.4% Whichever is greater
KORN	-200 °C to 0 °C 0 °C to 1250 °C	± 2.2 °C or 2.0% Whichever is greater ± 2.2 °C or .75% Whichever is greater	N/A ± 1.0 °C or 0.4% Whichever is greater

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

HHTC1										
-------	--	--	--	--	--	--	--	--	--	--

Example: HHTC1-K-G-3-8-FL-8i-120i-2X-STP-STJ-0

1. THERMOCOUPLE TYPE	
CODE	
J	Iron(+) vs Constantan(-)
K	Chromel(+) vs Alumel(-)
T	Copper(+) vs Constantan(-)
E	Chromel(+) vs Constantan(-)
N	Nicrosil(+) vs Nisil(-)
Use "S" for Special limit of Error	

2. MEASURING JUNCTION	
CODE	
G	Simplex / Grounded Junction
DG	Duplex / Grounded

3. SHEATH OD		
CODE	IMPERIAL SIZE	METRIC SIZE
3	3/16"	4.76 mm

4. SHEATH MAT.	
CODE	
8	SS 316

5. HANDLE STYLE	
CODE	
0	Handle without Flange
FL	Handle with Flange

6. IMMERSION LENGTH (I)	
Immersion length - use "I" for inches and "M" for millimetre	

7. LEAD LENGTH (L)	
Lead length - use "I" for inches and "M" for millimeter	

8. WIRE TYPE	
CODE	
1	PVC (105° C)
2	TEFLON (205° C)
6	TEFLON (260° C)
3	FIBRE GLASS (510° C)
4	High Temp Fiberglass (704° C)
NOTE:- Add "O" for no jacketing. Add "X" for SS braiding & "Z" for Armor	

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

10. CODES FOR TERMINATION (JACK)	
CODE	
STJ	Standard Jack
MJ	Miniature Jack

11. OPTIONAL ACCESSORY	
CODE	
0	Not required
WC	Wire clamp
Only choose when ordering with connector	

