



Ultra high Thermocouple

Type C (W5%Rh-W26%Rh) thermocouples are commonly used in various industries, including aerospace, metallurgy, and other high-temperature processes. They are known for their stability and accuracy in extreme temperature conditions up to 2300°C.

Ultra high thermocouple can also be supplied as type R,S and B, made as mineral insulated thermocouples with Pt10%Rh sheath.

Ordering code



1 No. of Thermocouples	Order code
Single	1
Duplex	2
Other	3

2 Type of Element	Order code
Pt10Rh-Pt (S) IEC584 Class 1	S
Pt13Rh-Pt (R) IEC584 Class 1	R
Pt30Rh-Pt6Rh (B) IEC584 Class 2	B
We3%Re-We25%Re (D) ASTM E230 special limits	C
We5%Re-We26%Re (C) ASTM E230 special limits	D

2 Sheath material	Order code
NONE	XXX
INC600 (2.4816)	INC600
* Molybdenum	MOLY
Pt10Rh	Pt10Rh
Pt20Rh	Pt20Rh
Tantalum	TANT
Other materials on request * Molybdenum is not bendable	

Tantalum (metal)

- Melts at 3000°C
- Good for neutral environment
- Good for thermal cycling; high to low temperatures
- Fair in graphite furnaces
- Bad in oxygen

Molybdenum (metal)

- Melts at 2600°C
- Good for neutral environment
- Good for thermal cycling high to low temperatures
- Fair in graphite furnaces
- Bad in oxygen

6 Sheath diameter	Order code
1,5 mm	0150
3,2 mm	0320
4,5 mm	0450
If none sheath material is selected, note the wire diameter	0050

Specify the OD and noted in 4 digits as above examples.

7 Insert length	Order code
330 mm	00330
1610 mm	01610
33125 mm	33125
Specify the OD and noted in 5 digits as above examples.	

8 termination	Description	Order code
Free ends	Example 15 mm = 015 Specified in 3 digits	XXX
Teflon lead to connect to transmitter	Specified in 3 digits Example 60 mm = T060	TXXX
Din plate 33 mm	Standard with 60 mm Teflon leads	D3 TB
Terminal block 33 mm	with color marking	XXXX
Extension cable	Cable type / lenght	SC
Standard connector		MC
Mini connector		

Cold end standard sealed with epoxy (t max 180°C), optional epoxy seal up to 250°C

Example 1 : MI TC , type 1xS class 1, Ø 1,5 x 150 mm Pt10Rh with 20 mm free ends

• SF-1S-PT10RH-0150-00150-020

Example 2 : TC , type 1xC , ASTM E230 spl. lim, Ø 6,0 x 655 mm Molybdenum with standard connector HT

• SF-1C-MOLY-0600-0655-SC (HT)