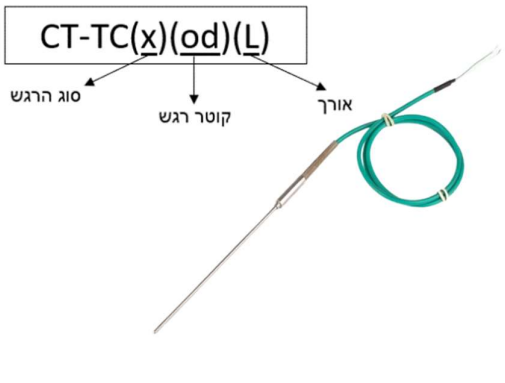
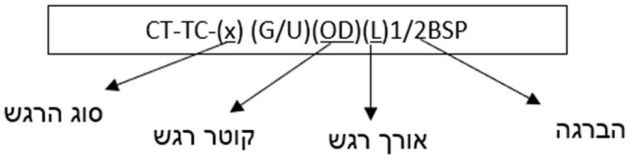
THERMOCOUPLE MINERAL MODEL CT-TC





Thermocouple type	Temperature range	Wire materials	Accuracy (special only)
K	-200…1260°C	Chromel (90% Nickel + 10% Chromium) Alumel (95% Nickel + 2% Manganese + 2% Aluminum + 1% Silicon)	1.1°C/0.4%
J	0…760°C	Iron Constantan (55% Copper + 45% Nickel)	1.1°C/0.4%
T	-200…370°C	Copper Constantan (55% Copper + 45% Nickel)	0.5°C/0.4%
N	-270…1300°C	Nicrosil (84.1% Nickel + 14.4% Chromium + 1.4% Silicon + 0.1% Manganese Nisil (95.6% Nickel + 4.4% Silicon)	1.1°C/0.4%
E	0…900°C	90% Nickel + 10% Chromium 95% Nickel + 2% Aluminum + 2 % Manganese + 1% Silicon	0.25%
B	870…1700°C	70% Platinum + 30% Rhodium 94% Platinum + 6% Rhodium	0.25%
R	0…1480°C	100% Platinum 87% Platinum + 13% Rhodium	0.6°C/0.1%
S	0…1480°C	100% Platinum 90% Platinum + 10% Rhodium	0.6°C/0.1%

Available tubes and wires

Tube type	Max. temp.	Notes
SS 316	300/600°C	SS OB wire inside
SS 316 mineral	900°C	For TC J
Inconel mineral	1145°C	
Ceramic - Pythagoras	1400°C	
Ceramic - Alsint	1700°C	Higher durability

Cable type	Max. temp.	Notes
PVC	80°C	
SS Overbraided	300/600°C	For dry areas
Teflon	200/250°C	Waterproof and highly durable
Silicon rubber	200°C	Waterproof
Fiberglass	500/1200°C	

Thermocouple order code

CT-TC											
Type											
J	J										
K	K										
T	T										
N	N										
E	E										
R	R										
S	S										
B	B										
Isolation											
Not isolated (standard)		G									
Isolated thermocouple		U									
Sensor Diameter /Length (mm)			Length(mm)								
1		A		##							
1.5		B		##							
2		C		##							
3		E		##							
5/4.8		F		##							
6		G		##							
Cable type											
PVC			P								
SS Overbraided			S								
Teflon			T								
Silicon rubber			I								
No cable, with plug standard/mini			M	S							
Sensor head											
Standard head Epoxy coated Aluminum				K							
Small head Epoxy coated Aluminum				L							
Plastic				M							
EX industrial				N							
No sensor head				X							
Double thermocouple					V						
Single (standard)					X						
Dimensions in mm											
Tube length						##	-				
Tube diameter (standard 9.5mm)				##							
Standard 1/2 BSP **/** required specifications				##			##				

| **for ceramic thermocouples only | *** Dimensions required |

Common thermocouple schematics

Chart 1: Industrial thermocouple with an either ceramic or SS 316 tube

Chart 2: A tube thermocouple with a cable

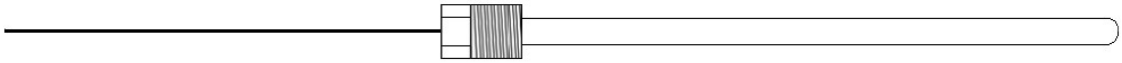


Chart 2: Thermocouple wire with a male connection