

Thermocouple with cable

Features

- Available with different thermocouples
- Wide application
- low-cost and high precision

Descriptions

Thermocouples with cable are available with different type, simple installation by tension bands or hose clips avoids any mechanical preparation of the measurement site.

Applications

The applicaiton areas are among others, in air conditioning, and regrigation technology as well as heating and apparatus engineering. The thermocouples is suitable for temperatures from -50 to +350.

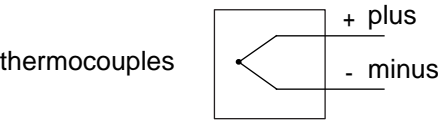


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Thermocouples accuracy

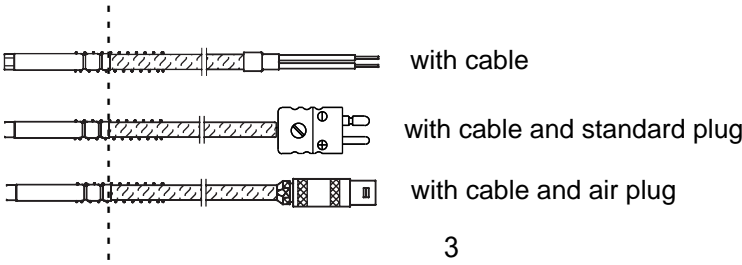
Temperature element	Class 1	Temperature range	Class 2	Temperature range
T Cu-CuNi	0.5 or $(0.4\% \times T)$	-40..+350	1 or $(0.75\% \times T)$	-40..+350
J Fe-CuNi	1.5 or $(0.4\% \times T)$	-40..+750	2.5 or $(0.75\% \times T)$	-40..+750
K NiCr-Ni		-40..+1200		-40..+1200
E NiCr-CuNi		-40..+900		-40..+900
N NiCrSi-NiSi		-40..+1200		-40..+1200
S PtRh10-Pt	1.0 or $[0.3\% \times (t - 1100)]$	0..+1600	1.5 or $(0.25\% \times T)$	0..+1600
R PtRh13-Pt		0..+1600		0..+1600
B PtRh30-PtRh6	—	0..+1700	1.5 or $(0.25\% \times T)$	0..+1700

Thermocouples connection

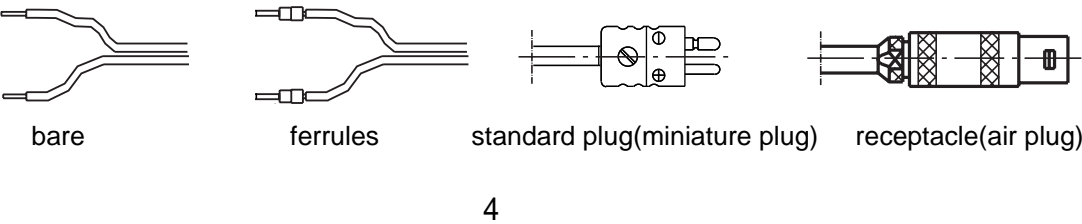


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Electrical connection



Electrical connection termination



Connect cable

Cable	Copper wire or thermocouple compensation wire
Sectional area	0.22 mm (Standard model)
Sensor quantity	depend on thermocouples sensors
Cable material	PVC,Silicone,FEP,PTFE or fiberglass

Note:the cable meterial on request.

The choice of the appropriate protection tube material depends on the medium which has to be measured and the conditions reigning in the site of measurement.

PVC :	-20...+100 ° C
Silicone	-50...+180 ° C
PTFE :	-200...+260 ° C
Mental braiding	-50... +400 ° C
Fiberglass	-50... +400 ° C