

Thermocouple with connection head



Features

- · With intechangeable measuring insert
- As single or double thermocouple
- Available with transmitter
- High precision, stability, quick response time

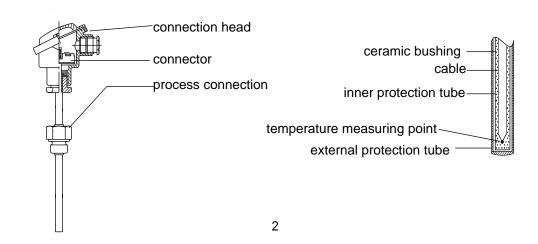
Descriptions

The temperature sensor are mainly used for measuring temperatures in liquids and gases. An important selection criterion is their reliable sealing against both negative and positive pressures. The heads are off the shelf with ceramic terminal blocks with two, four or six terminals. Several protection tubes in different materials and dimensions are available and mechanical damages. the choice of the appropriate protection tube material material depends on the medium which has to be measured and conditions reigning in the site of measurement.

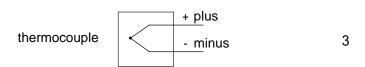
Applications

Applications include HVAC, regrigeration, heating installations, ovens, furnaces and plant engineering.

Construciton



Thermocouple connection



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Thermocouples accuracy

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

Protecting tube

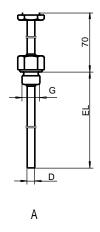
Meterial 304/316L (stainless steel) (other meterial on customers reqirements)

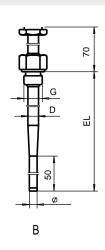
Diameter 6mm , 7mm , 9mm , 11mm (can be made in customers reqirements)

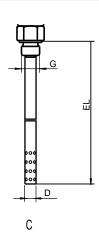
Length (can be made in customers reqirements)

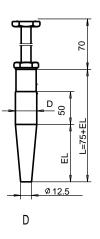
Protecting tube the choise of the protecting tube length depends on the conditions reigning in the site of measurement.

Protecting tube shape







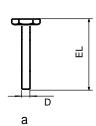


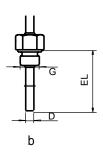
- 4,A is a common form Protecting tube
- 4,B is a reducing Protecting tube, enables short response times and vibration-resistant construction.
- 4,C is a with hole Protecting tube, enables short response times and vibration-resistant construction.
- 4,D is a with sheath Protecting tube, enables short response times and vibration-resistant construction.

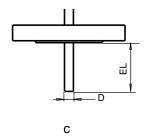
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Process connection







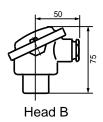
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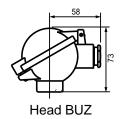
5,a is no process connection(adjustable thread joint or counter flange)

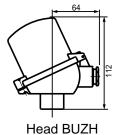
5,b is fixed thread installation(see attached list 1)

5,c is fixed flange installation(see attached list 3)

Connection head







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Head B

die-cast aluminum,M24x1.5, M 20x1.5; IP54, ambient temperature -20 to +100 °C

Head BUZ

die-cast aluminum,M24x1.5, M 20x1.5; IP65, ambient temperature -20 to +100 °C

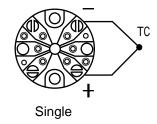
Head BUZH

die-cast aluminum,M24x1.5, M 20x1.5; IP65, ambient temperature -20 to +100 °C

(available with two transmitter)

Electrical connection

thermocouple connection(head B)



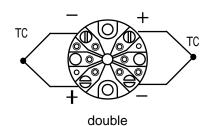
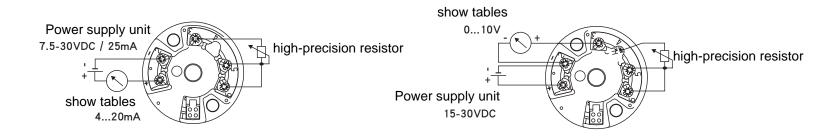


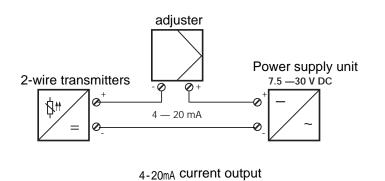
图 7

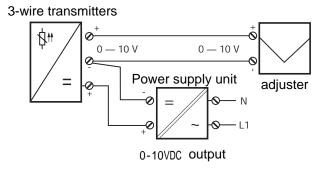
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Transmitter







artificial circuit transmitters	with transmitters output 4 to 20mA or 0-10V	
intelligence transmitters	with transmitters output 4 to 20mA /4 to 20mA with Aart agreement	
	detailed parameter please refer to transmitter data	

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