

## TEMPERATURE SENSORS

IKEP1BE2000

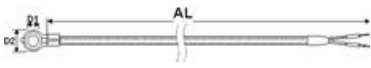
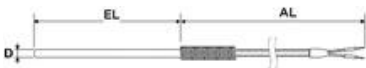
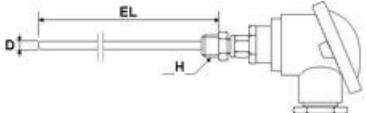

PT100 sensor, 5x20mm, 2m waterproof cable, max. 105 °C

- PT100 sensors
- J- and K-type sensors
- PTC thermistors



### PRODUCT DESCRIPTION



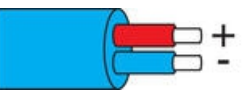

Pt100 sensor's resistance changes with temperature: 100  $\Omega$  in 0°C and 138,5  $\Omega$  in 100°C. EN 60751 class B tolerances are the following: 0°C  $\pm 0,3^\circ\text{C}$ , 100°C  $\pm 0,8^\circ\text{C}$  and 200°C  $\pm 1,3^\circ\text{C}$ . Sensor is made of stainless steel, cable shielded (TTS) with maximum temperature of 250°C.

<p><b>TP10, TP10/3</b></p> 	<p><b>TP5, TP150-2</b></p> 
<p><b>TP200</b></p> 	<p><b>IKEP1BE2000</b></p> 

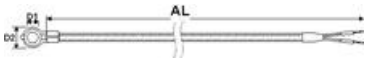
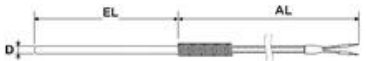
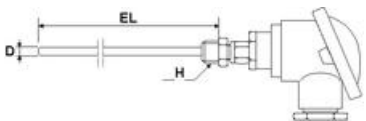
### J-type (Fe-Ko) thermo couples

Termoparianturin toiminta perustuu kahta eri metallia olevien termoliitosten mittausliitoksen ja vertailuliitoksen lämpötilaeron aiheuttaman lämpö-smv (mV) muutokseen. J-tyyppin anturin lämpö-smv on suuri ja alle 500°C lämpötiloissa käyttöikä lähes rajoittamaton. IEC 60584-2 class 1 normin mukainen maksimipoikkeama J-tyyppin anturille alueella -40°C...+375°C on  $\pm 1,5^\circ\text{C}$ . Kaapelin ja johtimien värit IEC/CEI mukaan.

#### Color coding on J-type thermo elements

Conductors	BS (UK)	ANSI (USA)	DIN	IEC/CEI
Iron/ Constantan				

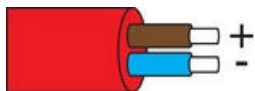



TJ10	TJ3-IJ
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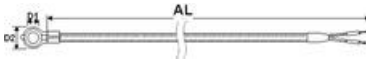
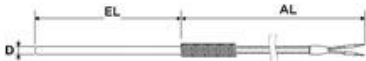
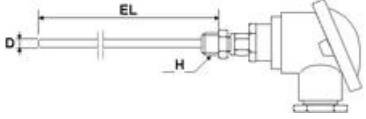
	
<b>TJ200</b>	
	

## K-type (NiCr/Ni) thermo couples

K-type thermo elements is perfectly suitable for high temperatures. Maximum offset  $\pm 1,5^{\circ}\text{C}$  in temperatures in temperature range of  $-40^{\circ}\text{C} \dots +375^{\circ}\text{C}$  according to IEC 60584-2

### Color codings on K-type thermo elements

Conductors	BS (UK)	ANSI (USA)	DIN	IEC/CEI
Chromel/ Alumel				

<b>TK10</b>	<b>TK3-IJ and TK15X100-IJ-S/3</b>
	
<b>TK200</b>	
	

## PTC thermistor

Thermistors feature a large resistance temperature coefficient and high resistance along with narrow temperature range. According to KTY 81-121 ( $990 \Omega/25^{\circ}\text{C}$ ) PTC thermistor holds the following standards:  $+20^{\circ}\text{C}/951 \Omega (\pm 1,4^{\circ}\text{C})$ ,  $+80^{\circ}\text{C}/1479 \Omega (\pm 2,9^{\circ}\text{C})$ ,  $+150^{\circ}\text{C}/2189 \Omega (\pm 4,9^{\circ}\text{C})$ . Suitable for use with TS400-series thermostats.



## SPECIFICATIONS

<b>Cable length</b>	2 m
<b>IP Class</b>	IP68
<b>Material Cable</b>	Thermoplastic
<b>Material Probe</b>	Thermoplastic

<b>Max temperature of probe</b>	105 °C
<b>Measuring Range</b>	- 50 °C ...+ 105 °C
<b>Number of conductors</b>	2