

TEMPERATURE SENSORS

IKEP1BE2000

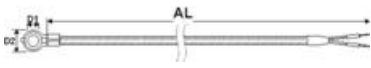
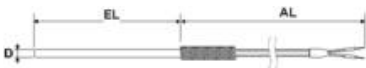
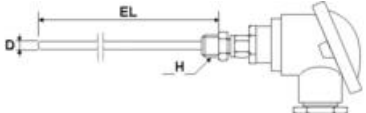

PT100 sensor, 5x20mm, 2m waterproof cable, max. 105 °C

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



PRODUCT DESCRIPTION



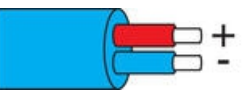

Pt100 sensor's resistance changes with temperature: 100 Ω in 0°C and 138,5 Ω in 100°C. EN 60751 class B tolerances are the following: 0°C ±0,3°C, 100°C ±0,8°C and 200°C ±1,3°C. Sensor is made of stainless steel, cable shielded (TTS) with maximum temperature of 250°C.

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


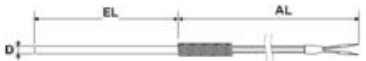
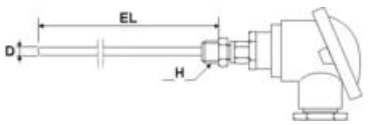
J-type (Fe-Ko) thermo couples

Termoparianturin toiminta perustuu kahta eri metallia olevien termoliitosten mittausliitoksen ja vertailuliitoksen lämpötilaeron aiheuttaman lämpö-smv (mV) muutukseen. 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 ±1,5°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 |  |  |  |  |

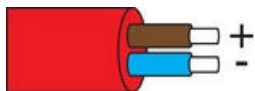



| | |
|------|--------|
| TJ10 | TJ3-IJ |
|------|--------|

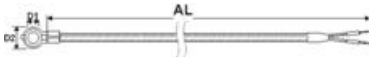

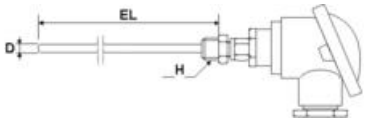
| | |
|---|--|
|  |  |
| TJ200 | |
|  | |

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 |  |  |  |  |

| | |
|---|---|
| TK10 | TK3-IJ and TK15X100-IJ-S/3 |
|  |  |
| TK200 | |
|  | |

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

| | |
|-----------------------|---------------|
| Cable length | 2 m |
| IP Class | IP68 |
| Material Cable | Thermoplastic |
| Material Probe | Thermoplastic |

| | |
|---------------------------------|---------------------|
| Max temperature of probe | 105 °C |
| Measuring Range | - 50 °C ...+ 105 °C |
| Number of conductors | 2 |