Pt100 cable sensor



Inexpensive resistance-based temperature sensors.
For immersion measurements in air and gases.
Rigid protective tube made from stainless steel
A wide variety of cable variants.
Operating temperature (depending on variant) -40 to +400 °C.

Technical data

Accuracy:	Pt100 film resistor, class B* (no other variants in stock)
Protective tube:	Diameter, length see Variants, stainless steel 1.4301
Junction of protective tube / connecting cable:	Direct, hard-crimped for dry uses
Cables:	Length = 1.5 meters, Other lengths are available as options. Cable diameter is never larger than the diameter of the protective tube.
Operating temperature:	see variants, Always for whole sensor (i.e. sensor tip and cable)
ALMEMO® connector:	resolution 0.01 K.

! **Please note:**
Only for usage in a dry environment

Note:
You can find temperature sensors suitable for usage in humid environments (e.g. climatic chamber) a few pages earlier



Variants

With FEP / FEP cable (black)

Operative range -40...+250 °C:

Diameter	Length	Order no.
3.0 mm	50 mm	**FPA30K03L0050**
3.0 mm	100 mm	**FPA30K03L0100**
4.0 mm	50 mm	**FPA40K03L0050**
4.0 mm	100 mm	**FPA40K03L0100**

A longer cable is available as an option

Total length 5 m	OPK03L0050
Total length 10 m	OPK03L0100

With FEP / silicone cable (red)

Operative range -40...+200 °C:

Diameter	Length	Order no.
5.0 mm	50 mm	**FPA50K01L0050**
5.0 mm	100 mm	**FPA50K01L0100**
6.0 mm	50 mm	**FPA60K01L0050**
6.0 mm	100 mm	**FPA60K01L0100**

A longer cable is available as an option

Total length 5 m	OPK01L0050
Total length 10 m	OPK01L0100

Cable with glass-fiber / glass-fiber / VA wire shielding

Operative range -40...+400 °C:

Diameter	Length	Order no.
5.0 mm	50 mm	**FPA50K06L0050**
5.0 mm	100 mm	**FPA50K06L0100**
6.0 mm	50 mm	**FPA60K06L0050**
6.0 mm	100 mm	**FPA60K06L0100**

A longer cable is available as an option

Total length 5 m	OPK06L0050
Total length 10 m	OPK06L0100

* Range of validity see beginning of chapter

DAkkS accredited calibration or factory calibration KT90xx temperature for sensor or measuring chain (sensor + device), see chapter „Calibration certificates“. DAkkS accredited calibration meets all the requirements regarding test resources laid down in DIN EN ISO/IEC 17025.