

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:
 For temperature sensors suitable for usage in humid environments (e.g. climatic chamber) see page 164



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 page 147

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