

## Pt100 cable sensor



Inexpensive resistance-based temperature sensors, for universal use. 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 features

**Measuring element :** Pt100 4L, DIN class B, For technical data see page 07.03.

**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:** Pt100 ZA9030FS2 with resolution 0.01 K .

### Variants

#### With FEP / FEP cable (black),

Operative range -40...+250°C:

Diameter	Length	Order no.
3.0 mm	50 mm	<b>FPA30K03L0050</b>
3.0 mm	100 mm	<b>FPA30K03L0100</b>
4.0 mm	50 mm	<b>FPA40K03L0050</b>
4.0 mm	100 mm	<b>FPA40K03L0100</b>

**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	<b>FPA50K01L0050</b>
5.0 mm	100 mm	<b>FPA50K01L0100</b>
6.0 mm	50 mm	<b>FPA60K01L0050</b>
6.0 mm	100 mm	<b>FPA60K01L0100</b>

**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	<b>FPA50K06L0050</b>
5.0 mm	100 mm	<b>FPA50K06L0100</b>
6.0 mm	50 mm	<b>FPA60K06L0050</b>
6.0 mm	100 mm	<b>FPA60K06L0100</b>

**A longer cable is available as an option**

Total length 5 m	OPK06L0050
Total length 10 m	OPK06L0100

#### Other designs are available on request:

Pt100 cable sensors FPA30K20L0020 vapor-tight (protective class IP69K), inter alia for temperature measuring in autoclaves, sterilizing units, high-temperature steam applications, vacuum applications, freeze drying units, -30. to +150 °C, protective tube in stainless steel with PFA cable.



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.