## Temperature

### Pt100 sensor with handle FPA 106 LxxxxH

**Accuracy:** Pt100 film resistor, class B*

**Measuring tip:**
- Operative range -40...+400 °C

**Sheath element:** stainless steel

**T<sub>T90</sub>:** 8 s

**Handle:** 127 mm

**Cable:** 1.5 m FEP/silicone

**L = 100 mm**  

Order no. FPA106L0100H

For immersion measurement

### Pt100 sensor with handle FPA 123 LxxxxH

**Accuracy:** Pt100 film resistor, class B*

**Measuring tip:**
- Operative range -40...+300 °C

**Penetrating tip**

**T<sub>T90</sub>:** 8 s

**Handle:** 127 mm

**Cable:** 1.5 m FEP/silicone

**L = 100 mm**  

Order no. FPA123L0100H

For immersion measurement in plastic and pasty substances

### Pt100 sensor with handle FPA 124 LxxxxH

**Accuracy:** Pt100 film resistor, class B*

**Measuring tip:**
- Operative range -40...+300 °C

**Silver rivet, level**

**T<sub>T90</sub>:** 10 s

**Handle:** 127 mm

**Cable:** 1.5 m FEP/silicone

**L = 100 mm**  

Order no. FPA124L0100H

For surface measurement and immersion measurement

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* Range of validity see page 07.03

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.
NTC sensor with handle FNA 106 LxxxxH

Accuracy: NTC, see page 07.04
Measuring tip: Operative range -20...+100 °C
Sheath element, stainless steel
T₉₀°: * 8 s
Handle: * 127 mm
Cable: 1.5 m PVC
L = 100 mm Order no. FNA106L0100H

For immersion measurement

NTC sensor with handle FNA 123 LxxxxH

Accuracy: NTC, see page 07.04
Measuring tip: Operative range -20...+100 °C
Penetrating tip
T₉₀°: * 8 s
Handle: * 127 mm
Cable: 1.5 m PVC
L = 100 mm Order no. FNA123L0100H

For immersion measurement in plastic and pasty substances

NTC sensor with handle FNA 124 LxxxxH

Accuracy: NTC, see page 07.04
Measuring tip: Operative range -20...+100 °C
Silver rivet, level
T₉₀°: 10 s
Handle: * 127 mm
Cable: 1.5 m PVC
L = 100 mm Order no. FNA124L0100H

For surface measurement and immersion measurement

NTC sensor FNA 305

Accuracy: NTC, see page 07.04
Measuring tip: Operative range -10...+60°C (non-condensing), Protective tube in stainless steel diameter = 3.0mm, length = 50mm mounted directly on ALMEMO® connector
T₉₀°: 8 s
L = 50 mm Order no. FNA305
(No variants available)

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.
**Pt100 sensor FPA 611 x**

Accuracy: Pt100 film resistor, class B*
Measuring tip: Operative range see below
Copper, level
Improved thermal transfer thanks to innovative sensor element and new contact technology

$T_{90}^*$: 20 s

Cable: see below

Surface sensor
-10...+90°C, Cable PVC, 2 m  **Order no. FPA611**

-10...+110°C, Cable, PFA, 3m for more demanding mechanical stress  ALMEMO® connector, resolution 0.01 K  **Order no. FPA611S01**

Accessories

- Fixture for fastening with cable ties  **Best-Nr. ZB9611RM**

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**Pt100 film sensor FPA 686**

Accuracy: Pt100 wire-wound, class B*

Messfläche: Operative range -50...+200 °C, temperature-resistant foil,
15 x 40 mm, approx. 0.5 mm thick

$T_{90}^*$: 2 s

Cable: Stranded wire PFA, 4-wire twisted

Length 2 m  **Order no. FPA686**
Length 10 m  **Order no. FPA686L10**

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**Pt100 ceramic chip sensor element FP 0802**

Accuracy: Pt100 film resistor, class B*

Measuring tip: Operative range -40...+400 °C

Ceramic chip sensor

Connection wires: 10 mm, bare

Ceramic chip sensor  **Order no. FP0802**

Unprotected sensor element for constructing your own sensors

* Range of validity see page 07.03

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.
NTC sensor FNA 611

For surface measurement

Accuracy: NTC, see page 07.04
Measuring tip: Operative range -20...+100 °C
Sensor element, copper, level
T<sub>ac</sub>: * 20 s
Cable: 2 m PVC

Surface sensor Order no. FNA611

Accessories
Fixure for fastening with cable ties Best-Nr. ZB9611RM

Unprotected sensor element with cable

NTC sensor FN 0001 K

Accuracy: NTC, see page 07.04
Measuring tip: Sensor element, unprotected
Operative range: -20...+100 °C
Connection wires: appr. 180 mm, fluoropolymer insulation
Connecting cable: 2 meters, PVC, thin stranded pick-up wire, Operative range -10 to +90 °C
Cable juncture, in shrink-fit

NTC sensor with cable, free ends Order no. FN0001K
Option:
ALMEMO® connector including assembly
Single connectors for 1 sensor Order no. OT9040AS
Double connector for 2 sensors Order no. OT9040AS2

Unprotected sensor element for constructing your own sensors

NTC sensor element FN 0001

Accuracy: NTC, see page 07.04
Measuring tip: Operative range -20...+100 °C
Sensor element, unprotected
Connection wires: 180 mm, fluoropolymer insulation

Sensor Order no. FN0001