Smart precision probe with 5-point adjustment

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Smart precision probe with 5 point adjustment

6000-1761
-100°C … 250°C

6000-1762
-100°C … 400°C

Description

Precise reference probe for measuring precise temperatures or for use as an industrial temperature standard e.g. for liquid baths, fixed point cells and temperature block calibrators.

- **slim design**
  The temperature sensor with a diameter of 4 mm and small Handle enables use in confined spaces such as e.g. for temperature block calibrators
- **Pt 100 temperature sensors**
  Use of highly stable and aged temperature sensors
- **configurable**
  individually configurable according to many parameters

Calibration

The sensors are measured and adjusted over the entire measuring range. The adjustment is saved as a polynomial in the Fühler-EPROM. In the attached document the tolerance and measurement uncertainty specified.

Technical data

Temperature range:	**6000-1761**: -100°C … 250°C **6000-1762**: -100°C … 400°C
Typical accuracy:	±0,005°C -20°C...+100°C, -100°C...-20°C ±0,03 +100°C...+200°C ±0,015, +200°C...+300°C ±0,020°C, +300°C...+400°C ±0,030°C
Nominal resistance:	Pt100 (100 Ohm)
Typical annual drift:	2,5mk
Connection type:	4-wire
Connecting cable:	Fiberglass protection hose with temperature-resistant, low-EMF strands made of PFA
Connection:	for P790 / P795 (or as requested)
Protection tube:	made of highly resistant outgassed Metal alloy
Dimensions	
Handle:	Ø12mm x 40mm
Diameter:	4mm
Length:	300mm
Connecting cable:	1,5m
Measuring resistor:	
R0:	100 Ohm ± 0,05 Ohm
Alpha:	0,003850 ± 0,000005
Standard:	IEC 60751:2008
Length:	25mm
recommended measuring current:	1mA

Order data

6000-1761	Smart precision probe with 5 point adjustment (-100°C ... + 250°C), 300x Ø4mm	€ 898,00
6000-1762	Smart precision probe with 5 point adjustment (-100°C ... + 400°C), 300x Ø4mm	€ 998,00