

Precision Analog Type K Temperature probe



- Interchangeable
- Fast and accurate
- Ergonomic handle with high operating temperature up to 120 °C
- Robust for many years of professional use
- Easy to clean
- Water-protected according to IP67

DESCRIPTION

AX 131 are precision analog type K thermocouple temperature probes.

The Immersion and insertion probes are designed for use in gases, liquids and soft materials. The surface probe variants are optimized for contact measurement on hard surfaces.

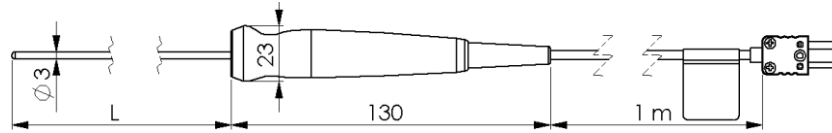
Stem material is corrosion and temperature resistant stainless steel, which is suitable for continuous food contact. The standard 1 meter thermocouple cable is optionally terminated with miniature flat plug or loose ends. The probe can be optionally supplied with a DAkKS-/Accredia calibration certificates when combined to a suitable display instrument (e.g. PRO 131/ 135).

The probes are based on class 1 material, which is the highest available precision class for thermocouples.

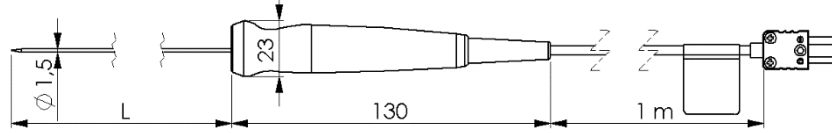
Attention: Surface probes have larger deviations in the practice than specified in this class, due to temperature gradient on point of contact.

Sensor	Type K
Measuring range	Immersion, insertion: -40 ... +550 °C, AX 131-S15 surface: -40 ... +400 °C AX 131-S8 surface: -40 ... +900 °C
Thermocouple	Typ K: Nickel-chromium / nickel-aluminum, IEC 60584-1
Accuracy	Class 1: ±1.5°C or 0.40% across measuring range
Response time (T ₉₀)	Ø 3 mm: water 0.4 m/s < 2 s, air 2 m/s approx. 40 s Ø 3 mm mineral insulated water 0.4 m/s < 5 s
Output	Type K
Cable	1 m silicone coated thermocouple cable (up to +200 °C)
Connection	miniature flat plug
Dimensions	Stem: Ø 3 mm, L = 130 mm (other lengths on request) Stem surface: Ø 8 mm or Ø 15 mm, L = 130 mm Cable: Ø 4 mm, L = 1 m
Weight	110 g approx. with 1 m cable
Stem Material	AISI 316
Handle Materials	Polyamide (PA6-GF30), grommet Santoprene (up to +120 °C)
Protection degree	IP67
Applications	Immersion, insertion, AX 131-S8/15 by touching surface

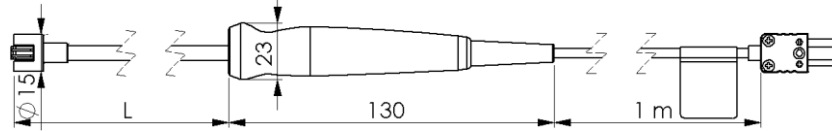
Immersion probe Ø 3 mm



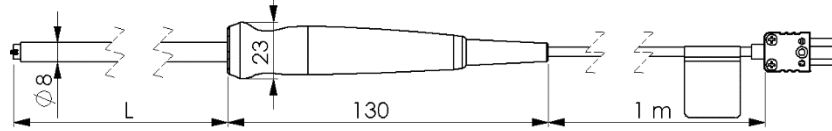
Insertion probe Ø 1.5 mm



Surface probe Ø 15 mm



Surface probe Ø 8 mm



ORDERING CODES

Type K Immersion/Insertion Probes

AX131 - 1 - 2 - 3 - 4 - 5

1	Variant	
	D	immersion blunt , type K, class 1, not potential free
	M	immersion blunt type K, class 1, mineral isolated
	I	Insertion probe, type K, class 1, not potential free
2	Diameter stem	
	1.5	Ø1,5 mm
	3	Ø3 mm
3	Probe length	
	130	130 mm, standard
	150	150 mm, standard for mineral insulated
4	Cable type & length	
	L01-S	1 meter Silicon cable
	LXX-S	Other length on request
	L01.2SK	Spiral cable approx. 1.2m stretched
5	Connection	
	MF	Miniature-Flat Pin plug
	LE	Loose ends with ferrules

Type K Surface Probes

AX131 - 1 - 2 - 3 - 4

1.	Varian	
	S8	Ø8 surface, with coil spring, compact, not potential free
	S15	Ø8 surface, with spring band, fast, not potential free
2.	Probe Tube	
	HS	-S8: Ø6 mm, length 130 mm, ceramic head straight
	HS	-S15: Ø6 mm, length 130 mm, head straight
	HA	-S15: Ø6 mm, length 120 mm, head angled
	TA	-S15: Ø6 mm, length 127+60 mm, sensor tube angled
3.	Cable type & length	
	L01-S	1 meter silicon cable
	LXX-S	Other length on request
	L01.2SK	Spiral cable approx. 1.2m stretched
4	Connection	
	MF	Miniature-flat pin plug
	LE	Loose ends with ferrules

STANDARD ARTICLES

- AX131-M3-150-L01-S-MF** Type K immersion probe, mineral insulated, probe tube Ø3 x 150 mm, 1 m silicon cable, miniature flat plug
Art. No. 486822
- AX131-D3-130-L01-S-MF** Type K immersion probe, not potential free, probe tube Ø3 x 130 mm, 1 m silicon cable,, miniature flat plug
Art. No. 486731
- AX131-I1.5-130-L01-S-MF** Type K insertion probe, not potential free, probe tube Ø1.5 x 130 mm, 1 m silicon cable, miniature flat plug
Art.No. 486828
- AX 131-I3-130-L01-S-MF** Type K insertion probe, not potential free, probe tube Ø3 x 130 mm, 1 m silicon cable, miniature flat plug
Art.No. 486829
- AX131-S15-HA-L01-S-MF** Type K surface probe with spring band, fast, Ø15 mm, probe tube length 120 mm, head angled, 1 m silicon cable, miniature flat plug
Art. No. 486852
- AX131-S15-HS-L01-S-MF** Type K surface probe with spring band, fast, Ø15 mm, probe tube length 120 mm, head straight, 1 m silicon cable, miniature flat plug
Art. No. 486854
- AX131-S15-TA-L01-S-MF** Type K surface probe with spring band, fast, Ø15 mm, probe tube length 127+60 mm, head stem angled, 1 m silicon cable, miniature flat plug
Art. No. 486853
- AX131-S8-HS-L01-S** Type K surface probe with coil spring, ceramic head straight Ø8 mm, probe tube length 130 mm, 1 m silicon cable, miniature flat plug
Art.No. 486856

SUITABLE INSTRUMENTS

- PRO 131.2** 2-channel handheld temperature meter for thermocouple probes. Supplied with 4 x AA alkaline batteries.
Art.No. 486119
- PRO 135.2** 2-channel handheld temperature meter/data logger for thermocouple probes. Supplied with 4 x AA alkaline batteries, USB cable and software downloadable from Senseca website.
Art.No. 486118
- ECO 130** Type K thermocouple quick response thermometer (formerly G 1200), supplied with 2 x AA batteries
Art.No. 486708
- ECO 130.2** Type K quick response 2-channel-alarm-thermometer (formerly G 1202)), supplied with 2 x AA batteries
Art.No. 486732