

# AX 111 / AX 115



## Precision analog 4-wire Pt100 probe



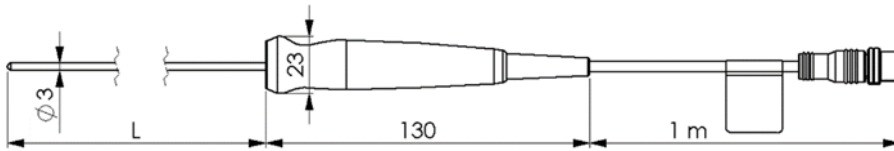
- Interchangeable
- Fast and accurate
- Pt100 platinum reference for 4-wire reference Instruments (E.g. PRO 115)
- Ergonomic handle with high operating temperature up to 120 °C
- Robust for many years of professional use
- Easy to clean
- Water-protected according to IP67

### DESCRIPTION

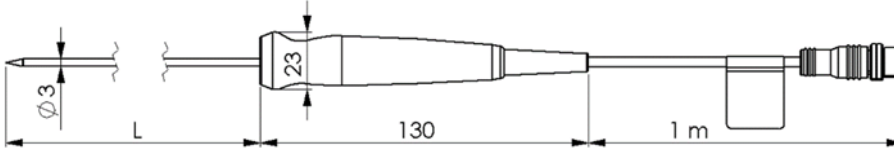
AX 111 are precision analog Pt100 temperature probes based on thin film sensor technology.  
AX 115 are high precision analog immersion probes incorporating wire wound Pt100 sensors for best precision.  
The probes are designed for use in gases, liquids and soft materials.  
Stem material is corrosion and temperature resistant stainless steel., which is suitable for continuous food contact.  
The standard 1 meter cable is optionally terminated with M12 male connector or loose ends.  
The probes can be optionally supplied with a DAkkS-/Accredia calibration certificates when combined to a suitable display instrument (e.g. PRO 111 / 115).

Sensor	AX 111 - Pt100 (thin film) AX 115 - Pt100 (wire wound)
Measuring range	AX 111 -50...+250 °C AX 111 mineral insulated -200...+600 °C AX 115 mineral insulated class 1/10 DIN B -50...+250 °C AX 115 mineral insulated class A -100...+450 °C
Accuracy	Class B, Class A, Class AA Class 1/10 DIN B
Response time (T <sub>90</sub> )	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	Pt100 4-wire
Connection	M12 4-pole male A-coded or loose ends
Dimensions	Stem: Ø3 mm, L=150/300 mm (other lengths on request) Cable: Ø4 mm, L=1, 2 or 5 m
Weight	110 g approx. with 1 m cable
Materials	Stem: AISI 316 Handle: Polyamide (PA6-GF30) Cable: PVC (permanently up to +80 °C / short-term approx. 2 hours per application up to +105 °C)
Protection degree	IP67
Applications	Immersion, insertion

Immersion probe Ø 3 mm,



Insertion probe Ø 3 mm,



## ORDERING CODES

AX    1.   -   2.   -   3.   -   4.   -   5.   -   6.

1.	Pt100	
	111	Pt100 thin film
	115	Pt100 wire wound
2.	Stem construction	
	D3	Ø3 mm immersion
	I3	Ø3 mm insertion
	M3	Ø3 mm immersion mineral insulated
3.	Accuracy	
	B	Class B
	A	Class A
	AA	Class AA
	01B	Class 1/10 DIN B
4.	Stem length	
	-150	150 mm
	-300	300 mm
	-XXX	other length on request
5.	Cable length and material	
	-L01-P	1 m PVC cable, -20 ... +105 °C
	-L02-P	2 m PVC cable, -20 ... +105 °C
	-L05-P	5 m PVC cable, -20 ... +105 °C
	-L01.2SK	Spiral cable stretchable to 1.2 m
6.	Connection	
	-M12	M12 connector, 4-pin (eg. PRO 11X)
	-MD	Mini-DIN plug, 4 wire (GMH 37xx)
	-LE	Loose ends with wire end ferrules, 4-wire

## STANDARD ARTICLES

<b>AX 111-D3-B-150-L01-P-M12</b>	Analog Pt100 immersion probe, thin film sensor class B, stem Ø3 x 150 mm, PVC cable 1 m, M12	<b>Art.No. 486727</b>
<b>AX111-D3-AA-150-L01-P-M12</b>	Analog Pt100 immersion probe, thin film sensor class AA, stem Ø3 x 150 mm, PVC cable 1 m, M12	<b>Art.No. 487377</b>
<b>AX111-I3-AA-150-L01-P-M12</b>	Analog Pt100 insertion probe, thin film sensor class AA, stem Ø3 x 150 mm, PVC cable 1 m, M12	<b>Art.No. 486830</b>
<b>AX 115-M3-01B-300- L01-P-M12</b>	Analog Pt100 immersion high precision probe, wire wound sensor 1/10 class B, stem Ø3 x 300 mm, cable length 1 m, M12	<b>Art.No. 486730</b>

## SUITABLE INSTRUMENTS

<b>PRO 111</b>	1-channel temperature meter for Pt100/Pt1000 probe. Supplied with 4 x AA alkaline batteries.	<b>Art.No. 486650</b>
<b>PRO 115</b>	1-channel temperature meter/data logger for Pt100/Pt1000 probes. Supplied with 4 x AA alkaline batteries. USB cable and software downloadable from Senseca website.	<b>Art.No. 486651</b>