

DX 115

High precision digital Pt100 probe



- 2-point factory calibrated
- 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
- Optional DAkkS/ACCREDIA certification available

DESCRIPTION

DX 115 is a high precision digital immersion wire wound Pt100 temperature probes for the PRO D01 / PRO D05 handheld meters.

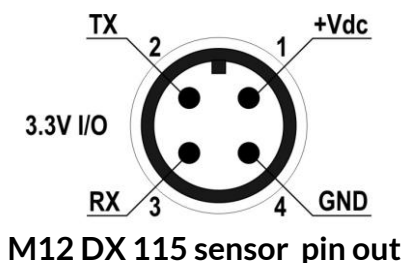
The probe is supplied factory-calibrated, and it is ready to use. It can be optionally supplied with a DAkkS/ACCREDIA calibration certificate.

The calibration data are stored in the probe, allowing for interchangeability without the need for recalibration.

Digitizing electronic integrated in connector body to minimize temperature effects, including 4wire technology and thermo-voltage compensation.

The user can adjust the probe in two points (offset and slope) or by setting R0 (sensor resistance @ 0 °C) and the Callendar-Van Dusen parameters.

Supplied with 1, 2 or 5 m cable with 4-pin M12 connector.



TECHNICAL SPECIFICATIONS

Sensor	Pt100 (Wire Wound)
Measuring range	-196...+500 °C
Resolution	0.01 °C ($t \leq +350$ °C) / 0.1 °C ($t > +350$ °C)
Accuracy	±0.05 °C ($t = 0$ °C) ±0.1 °C (0 °C $\leq t \leq 100$ °C) ±0.2 °C (-50 °C $\leq t < 0$ °C, $100 < t \leq 250$ °C) ±0.3 °C ($t =$ remaining range)
Response time (T_{63})	3 s
Output	UART (TTL 3.3V)
Power supply	3.3...6 Vdc
Power consumption	< 1 mA typ.
Connection	4-pole M12
Dimensions	Stem: Ø3 mm, L=130/230/300 mm (other lengths on request) Handle length 98 mm Cable: Ø4 mm, L=1, 2 or 5 m
Weight	110 g approx. with 2 m cable
Materials	Stem: AISI 316 Handle: Polyamide (PA6-GF30) Cable: PVC (-20...+105 °C)
Protection degree	IP67
Applications	Immersion



Ordering codes

DX115-00 1. 2.

1.	Stem length	
	-130	130 mm
	-230	230 mm
	-300	300 mm (recommended)
2.	Cable length	
	-L01	1 m PVC cable, -20 ... +105 °C
	-L02	2 m PVC cable, -20 ... +105 °C
	-L05	5 m PVC cable, -20 ... +105 °C

Standard articles

DX 115-00-300-L02 Digital Pt100 immersion probe, wire wound sensor, high precision, stem Ø3 x 300 mm, cable length 2 m.

Art.No. 486229

Suitable Instruments

PRO D01 1-channel handheld meter for digital probes. Supplied with 4 x AA alkaline batteries, USB cable and software downloadable from Senseca website.

Art.No. 486134

PRO D05.2 2-channel handheld data logger for digital probes. Supplied with 4 NiMH rechargeable batteries, USB cable and software downloadable from Senseca website.

Art.No. 486136

PRO D05.3 3-channel handheld data logger for digital probes. Supplied with 4 NiMH rechargeable batteries, USB cable and software downloadable from Senseca website.

Art.No. 486137