

DX 111

Precision digital Pt100 probe, with thin film Pt100 sensor



- 2-point factory calibrated
- Interchangeable without adjustment
- 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 111 is a high precision digital Pt100 temperature probe with economic thin film sensors for the PRO D01 / PRO D05 handheld meters and similar with DX-input.

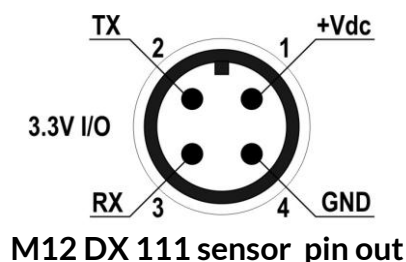
The probe is supplied factory-calibrated, and it is ready to use. It can be optionally supplied with a DAkkS/ACCREDIA calibration certificate.

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 4-wire 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 (thinfilm)
Stem	DX 111-00: immersion probe DX 111-I3: insertion probe
Measuring range	-50 ... 250°C
Resolution	0.01 °C
Accuracy	±0.1 °C (0 °C ≤ t ≤ 100 °C) ±0.2 °C (-50 °C ≤ t < 0 °C, 100 < t ≤ 250 °C)
Response time (T ₆₃)	3 s
Output	UART (TTL 3.3V)
Power supply	3.3...6 Vdc, DX-sensor interface
Power consumption	<1 mA typ.
Connection	4-pole M12, PVC cable
Dimensions	Stem: Ø3 mm, L=150/230 mm (other lengths on request) Handle length 98 mm 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 (-20...+105 °C)
Protection degree	IP67



 3 mm immersion tip -00

 3 mm insertion tip -I3

Ordering codes

DX111 1. 2. 3.

1.	Version	
	-00	Immersion probe Ø3 mm, blunt
	-I3	Insertion probe Ø3 mm
2.	Stem length	
	-150	150 mm
	-230	230 mm
3.	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 111-00-150-L01 Digital Pt100 immersion probe, thinfilm sensor, high precision, , -50 ... 250°C
 Ø3 x 150 mm, cable length 1 m, in carton box, incl. QuickStart
Art.No. 489063

DX 111-I3-150-L01 Digital Pt100 insertion probe, thinfilm sensor, high precision, , -50 ... 250°C
 Ø3 x 150 mm, cable length 1 m, in carton box, incl. QuickStart
Art.No. 489064

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

More types: PRO 921/925, PRO 915-2, PRO595: please refer to portable.senseca.com