## **DX 115**



## High precision digital Pt100 probe, with wire wound Pt100 sensor



- 2-point factory calibrated
- Interchangeable without adjustment
- Fast and very accurate
- Wide temperature range
- 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 Pt100 temperature probe with wide range wire wound sensors for the PRO D01/PRO D05 handheld meters.

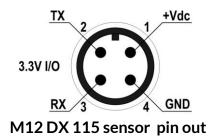
The probe is supplied factory-calibrated, and it is ready to use. It can be optionally supplied with a DAkkS/ACCREDIA calibration certificate.

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

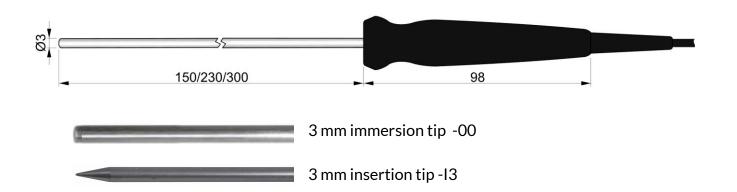
Digitizing electronic integrated in connector body to minimize temperature effects, including 4-wire technology and thermo-voltage compensation.

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 (Wire Wound)			
Stem	DX 115-00: Ceramic insulated stiff immersion probe DX 115-I3: Ceramic insulated stiff insertion probe DX 115-M3: Mineral insulated immersion probe, bendable up to 50 mm before tip			
Measuring range	DX 115-00:(/-M3: -196+500 °C DX 115-I3: -196+250 °C			
Resolution	0.01 °C			
Accuracy	$\pm 0.05$ °C (t = 0 °C) $\pm 0.1$ °C (0 °C ≤ t ≤ 100 °C) $\pm 0.2$ °C (-50 °C ≤ t < 0 °C, 100 < t ≤ 250 °C) $\pm 0.3$ °C (t = remaining range)			
Response time (T <sub>63</sub> )	3s			
Output	UART (TTL 3.3V)			
Power supply	3.36 Vdc, DX-sensor interface			
Power consumption	<1 mA typ.			
Connection	4-pole M12, PVC cable			
Dimensions	Stem: Ø3 mm, L=150/230/300 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			



Ordering codes						
	1.	2.	3.			
DX115						

1.	Version	
	-00	Immersion probe Ø3 mm, blunt
	-I3	Insertion probe Ø3 mm
	-M3	Immersion probe, mineral insulated, bendable up to 50 mm before tip
2.	Stem length	
	-150	150 mm
	-230	230 mm
	-300	300 mm (recommended for version -00)
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 115-00-230-L02	Digital Pt100 immersion probe, wire wound sensor, high precision Ø3 x 230 mm, cable length 2 m, in soft case, incl. QuickStart
	Art.No. 487740
DX 115-00-300-L02	Digital Pt100 immersion probe, wire wound sensor, high precision Ø3 x 300 mm, cable length 2 m, in soft case, incl. QuickStart
	Art.No. 486229
DX 115-I3-150-L02	Digital Pt100 insertion probe, wire wound sensor, high precision Ø3 x 150 mm, cable length 2 m, in carton box, incl. QuickStart
	Art.No. 487742

## 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