



NIEUWKOOP



senseca

## 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.

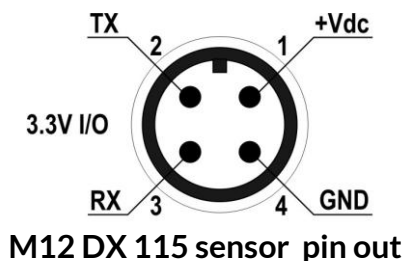
The probe is supplied factory-calibrated, and it is ready to use. It can be optionally supplied with a DAkkS/ACCREDIA calibration certificate.

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  $R_0$  (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	±0.05 °C (t = 0 °C) ±0.1 °C (0 °C ≤ t ≤ 100 °C) ±0.2 °C (-50 °C ≤ t < 0 °C, 100 < t ≤ 250 °C) ±0.3 °C (t = remaining range)
Response time (T <sub>63</sub> )	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=150/230/300 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



 3 mm immersion tip -00

 3 mm insertion tip -I3



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## Ordering codes

DX115      1.       2.       3.

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

<b>DX 115-00-230-L02</b>	Digital Pt100 immersion probe, wire wound sensor, high precision, Ø3 x 230 mm, cable length 2 m, in soft case, incl. QuickStart	<b>Art.No. 487740</b>
<b>DX 115-00-300-L02</b>	Digital Pt100 immersion probe, wire wound sensor, high precision, Ø3 x 300 mm, cable length 2 m, in soft case, incl. QuickStart	<b>Art.No. 486229</b>
<b>DX 115-I3-150-L02</b>	Digital Pt100 insertion probe, wire wound sensor, high precision, Ø3 x 150 mm, cable length 2 m, in carton box, incl. QuickStart	<b>Art.No. 487742</b>

## Suitable Instruments

<b>PRO D01</b>	1-channel handheld meter for digital probes. Supplied with 4 x AA alkaline batteries, USB cable and software downloadable from Senseca website.	<b>Art.No. 486134</b>
<b>PRO D05.2</b>	2-channel handheld data logger for digital probes. Supplied with 4 NiMH rechargeable batteries, USB cable and software downloadable from Senseca website.	<b>Art.No. 486136</b>
<b>PRO D05.3</b>	3-channel handheld data logger for digital probes. Supplied with 4 NiMH rechargeable batteries, USB cable and software downloadable from Senseca website.	<b>Art.No. 486137</b>

More types: PRO 921/925, PRO 915-2, PRO595: please refer to [portable.senseca.com](http://portable.senseca.com)



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