

DX 121 ECO

Digital DX temperature probe 0.1°C



- Interchangeable without adjustment: DX interface
- Fast and accurate
- Pt1000 platinum sensor
- Ergonomic handle with operating temperature -20 ... +80 °C
- Robust for many years of professional use
- Easy to clean
- Water-protected according to IP67

DESCRIPTION

DX 121 is a digital Pt1000 temperature probe for the PRO D01 / PRO D05 handheld meters and similar with DX-input.

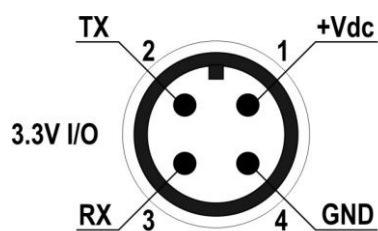
It is the ideal economic temperature companion to the wide range of SENSECA sensors – e.g. in water analysis applications.

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.

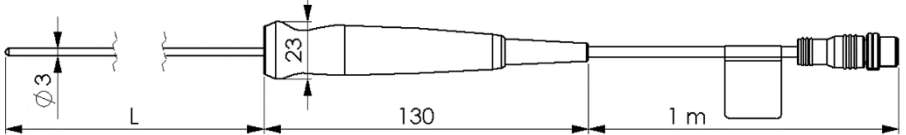
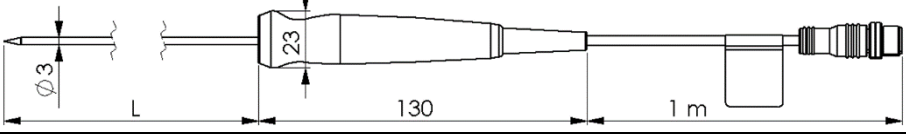
The user can adjust the probe in two points parameters.

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



M12 DX 121 sensor pin out

TECHNICAL SPECIFICATIONS

Sensor	Pt1000 (thin film)
Design types	DX 121-D3: immersion probe DX 121-I3: insertion probe
Measurement Range	-50 ... +250 °C
Resolution	0.1 °C
Accuracy (at nominal handle temperature 20...30°C)	±0.2 °C (0 °C ≤ t ≤ 100 °C) ±0.2 °C +0.3% of meas. value (-50 °C ≤ t < 0 °C, 100 < t ≤ 250 °C)
Ambient temperature influence	< 0.01 K / K
Response Time (T90)	tube-Ø 3 mm: in water 0.4 m/s < 2 s, in air 2 m/s ~ 40 s
Operating conditions	-20 ... +80 °C
Storage Temperature	-20 ... +80 °C
Output	DX-sensor interface M12
Connection (to device)	4-pin M12, PVC cable
Power Supply	3.3 V dc
Current Consumption	<1 mA typ.
Dimensions	Length probe tube: 150 mm (standard) DX 121-D3:  DX 121-I3: 
Weight	approx. 70 g (with 1m cable) approx. 91 g (with 2m cable) approx. 155g (with 5m cable)
Materials	probe tube: AISI 316 stainless steel Handle: Polyamide (PA6-GF30) Cable: PVC (-20...+105 °C)
Protection degree	IP67
Directives and standards	The devices conform to the following Directives of the Council for the harmonization of legal regulations of the Member States: • 2014/30/EU EMC Directive • 2011/65/EU RoHS Applied harmonized standards: • EN 61326-1:2013 Emission limits: Class B Immunity according to table 1 Additional errors: < 1 % FS • EN IEC 63000:2018

Ordering codes

DX **1.** - **2.** - **3.** - **4.** - **5.**

1.	Pt1000	
	121	Pt1000 thinfilm
2.	Version	
	-D3	Immersion probe Ø3 mm
	-I3	Insertion probe Ø3 mm
2.	Stem length	
	-150	150 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
4	Connection	
	-M12	4-pole M12, PVC cable

Standard articles

DX 121-D3-150-L01	Digital DX Pt1000 immersion probe, thinfilm sensor, Ø3 x 150 mm cable length 1 m	Art no. 486236
DX 121-I3-150-L01	Digital DX Pt1000 insertion probe, thinfilm sensor, Ø3 x 150 mm cable length 1 m	Art no. 489062

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