

DX 330

Digital Indoor Air Quality probe



- Interchangeable
- Low power
- Fast and accurate
- Incorporates high grade CO₂ and VOC index sensors
- Premium sensor combination to evaluate air quality in detail
- Optional DAkks/ACCREDIA certification available

DESCRIPTION

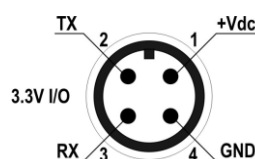
DX 330 is a digital Indoor Air Quality (IAQ) probe for the PRO D01 / PRO D05 handheld meters. The probe measures:

- Temperature
- Relative humidity
- Atmospheric pressure
- CO₂
- VOC index

The probe is supplied factory-calibrated, and it is ready to use. The probe 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.

Equipped with 4-pin M12 connector.

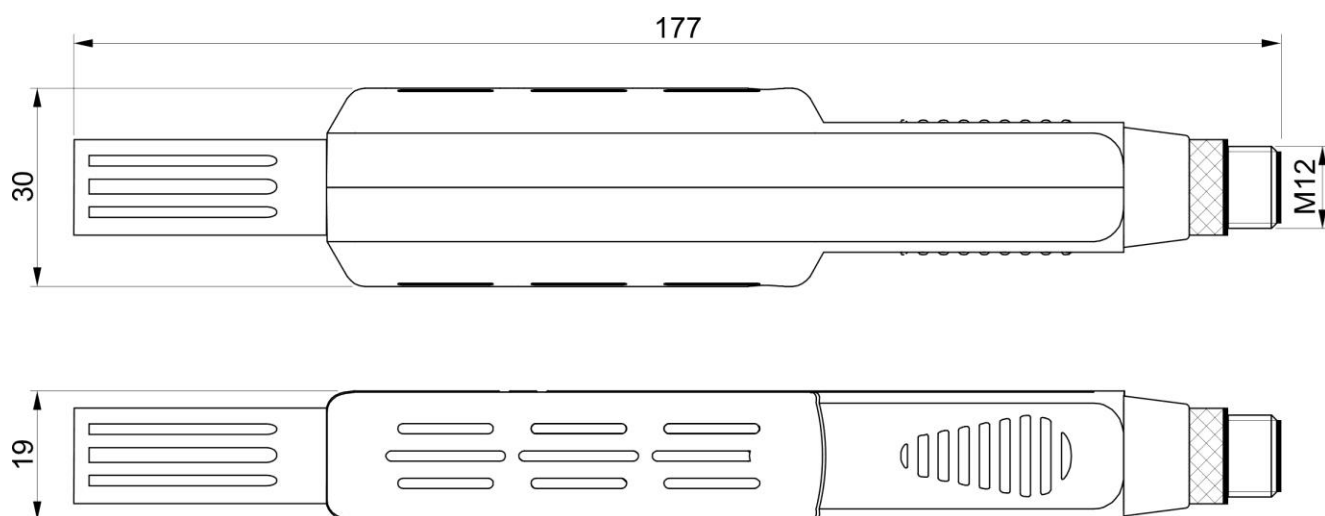


M12 DX 310 sensor pin out

TECHNICAL SPECIFICATIONS

Sensor	Temperature/RH	CMOS
	Pressure	Piezoresistive
	CO ₂	Non-Dispersive Infrared (NDIR)
	VOC	Metal-Oxide film
Measuring range	Temperature	-20...+80 °C
	RH	0...100%
	Pressure	300...1250 hPa
	CO ₂	0...5000 ppm
	VOC	1...500 (dimensionless index)
Resolution	Temperature	0.1 °C
	RH	0.1%
	Pressure	0.1 hPa
	CO ₂	1 ppm
	VOC	1
Accuracy (typ.)	Temperature	±0.1 °C (20...60 °C) / ±0.2 °C (remaining range)
	RH	±2% (0...80%RH) / ±3% (80...100%RH) @ T=10...50 °C
	Pressure	±0.5 hPa (300...1100 hPa / -20...65 °C)
	CO ₂	± (50 ppm + 3% of the measure) @ 25 °C / 1013 hPa
	VOC	Relative qualitative measurement
Temperature drift	Pressure	±0.75 Pa/°C (0...55 °C / 700...1100 hPa)
	CO ₂	1 ppm/°C (-20...45 °C)
Long-term drift	Temperature	< 0.03 °C/year
	RH	< 0.25 %RH/year
	Pressure	±0.33 hPa/year
	CO ₂	5% of the measure/5 years
Response time	Temperature/RH	10 s (T ₆₃ with 1 m/s air flow)
	CO ₂	< 120 s (T ₉₀ with 2 m/s air flow)
Operating conditions		-20...+60 °C / 0...95 %RH non-condensing ^(*)
Output		UART (TTL 3.3V)
Power supply		3.3...6 Vdc
Power consumption		< 6 mA typ.
Connection		4-pole M12
Dimensions		177 x 30 x 19 mm
Weight		45 g approx.
Material		ABS

^(*) The sensor shows best performance when operated in 20...80 %RH humidity range. Long term exposure outside the indicated range (especially at high humidity) may temporarily offset the sensor response.



Ordering codes

DX 330-00 Digital VOC index, CO₂, temperature, relative humidity and atmospheric pressure probe.

Art.No. 486786

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