

DX 330

Digital Indoor Air Quality probe (IAQ)



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

DESCRIPTION

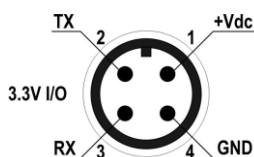
DX 330 is a digital Indoor Air Quality (IAQ) probe for the PRO D01 / PRO D05 handheld meters. The probe measures:

- 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.



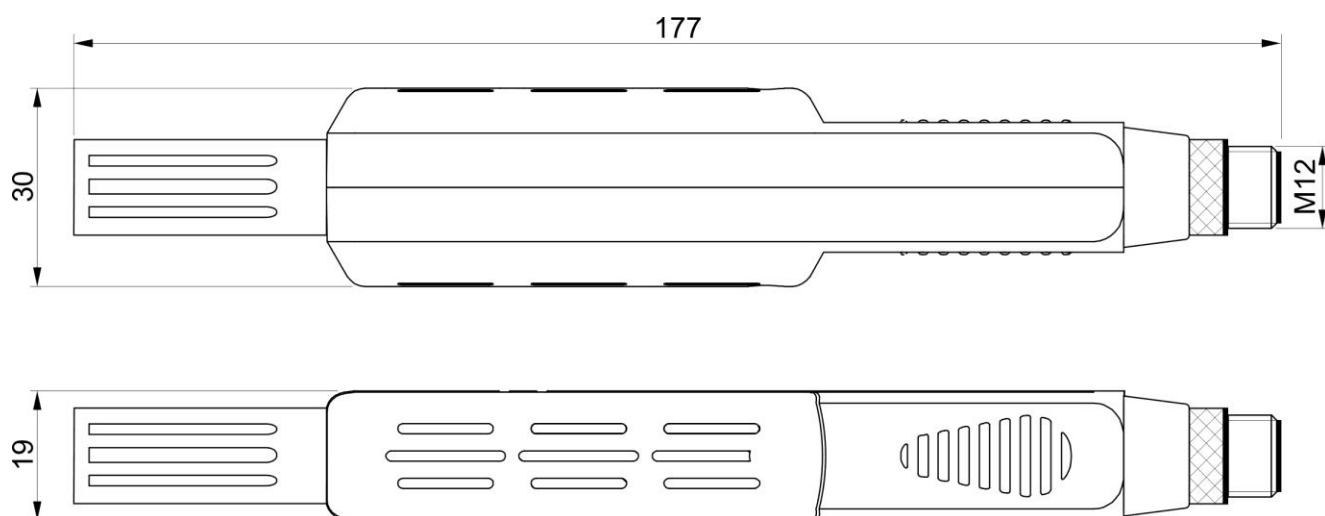
M12 DX 310 sensor pin out

The sensor can either be screwed directly onto the instrument (one-handed operation) or connected with a connection cable.

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
Adjustment support		Temperature (offset or 2 points), RH (2 points), CO ₂ (offset or 2 points), pressure (offset)
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 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 Indoor Air Quality probe	Art no. 486786
DX 330-L01-00	Digital Indoor Air Quality probe including M12 connection cable 1m	Art no. 488123

SUITABLE INSTRUMENTS

PRO D01	1-channel handheld meter for digital probes. Supplied with 4 x AA alkaline batteries.	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

ACCESSORIES

CABLE-M12-L01	Connection cable M12 5 pole, 1m	Art no. 487020
HD11	Saturated solution for checking Relative Humidity at 11% RH.	Art no. 487623
HD33	Saturated solution for checking Relative Humidity at 33% RH.	Art no. 487624
HD75	Saturated solution for checking Relative Humidity at 75% RH.	Art no. 487625