

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

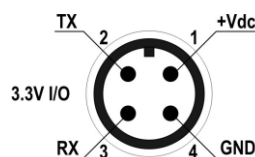
DX 330 is a digital Indoor Air Quality (IAQ) probe for the PRO D01 / PRO D05 handheld meters. The probe measures:

- 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.



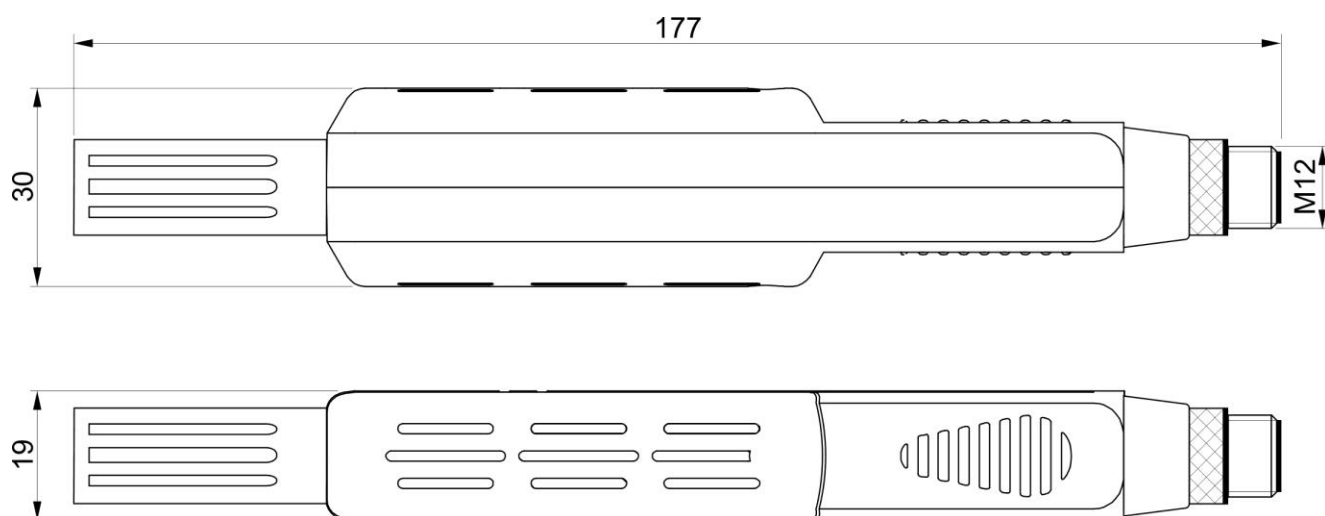
M12 DX 310 sensor pin out

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

TECHNICAL SPECIFICATIONS

| | | |
|----------------------|---|--|
| Sensor | Temperature/RH Pressure CO ₂ VOC | CMOS Piezoresistive Non-Dispersive Infrared (NDIR) Metal-Oxide film |
| Measuring range | Temperature RH Pressure CO ₂ VOC | -20...+80 °C 0...100% 300...1250 hPa 0...5000 ppm 1...500 (dimensionless index) |
| Resolution | Temperature RH Pressure CO ₂ VOC | 0.1 °C 0.1% 0.1 hPa 1 ppm 1 |
| Accuracy (typ.) | Temperature RH Pressure CO ₂ VOC | ±0.1 °C (20...60 °C) / ±0.2 °C (remaining range) ±2% (0...80%RH) / ±3% (80...100%RH) @ T=10...50 °C ±0.5 hPa (300...1100 hPa / -20...65 °C) ± (50 ppm + 3% of the measure) @ 25 °C / 1013 hPa Relative qualitative measurement |
| Temperature drift | Pressure CO ₂ | ±0.75 Pa/°C (0...55 °C / 700...1100 hPa) 1 ppm/°C (-20...45 °C) |
| Long-term drift | Temperature RH Pressure CO ₂ | < 0.03 °C/year < 0.25 %RH/year ±0.33 hPa/year 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 CO ₂ | 10 s (T ₆₃ with 1 m/s air flow) < 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

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|----------------------|--|-----------------------|
| 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 |