DX 970

DX Digital hot wire anemometer probe (directional)



- Interchangeable DX sensor
- Very robust hot-film sensing element
- measuring range 0.4 ... 20 m/s
- Fast: T90< 1.5 s
- Integrated temperature channel
- Temperature compensated 0 … 50°C
- for PRO Line meters PRO D01/D05/921/925
- Optional DAkkS/ACCREDIA certificates

DESCRIPTION

DX 970 are compact and reliable hot-film anemometers, ideal for measuring air velocities in exhaust systems and ventilation ducts.

The diameter of Ø 12 mm allows measurement in correspondingly small measuring openings.

The measurement is direction-dependent, the direction is easily recognizable by the sensor construction.

They are designed for use with PRO D01/D05/925/595 handheld measuring devices and can therefore be easily combined with any other sensors, such as the DX 310 air humidity sensors or DX 330 air quality sensors.

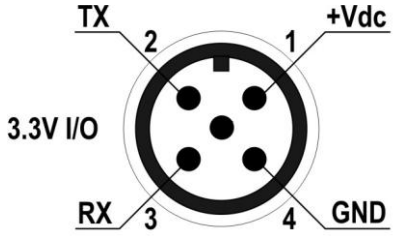
The measurement is temperature compensated over a wide range for enhanced accuracy.

The probes are supplied factory-calibrated, and they are ready to use.

They can be optionally supplied with an ISO 9001 factory calibration or EN ISO/IEC 17025 ACCREDIA calibration certificate.

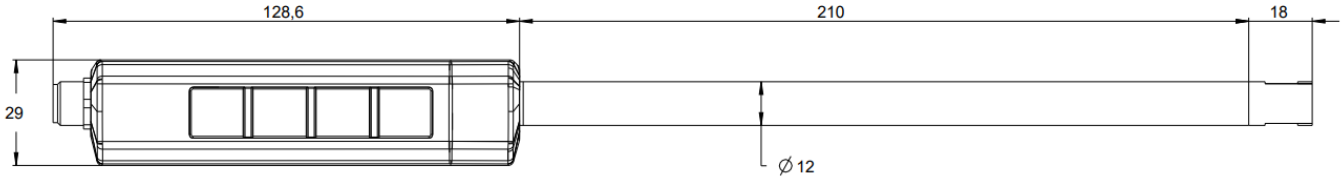
The calibration data are stored in the probe, allowing for interchangeability without the need for recalibration.

Equipped with 5-pin M12 connector “DX-Sensor standard”, connectable to PRO-D0x and PRO 921 / 925 multifunctional meters.



M12 DX 970 sensor pin out
(a connection-cable is required)

TECHNICAL SPECIFICATIONS	
Sensor type	Hot film anemometer sensor, directional
Measuring range	0.40 … 20.00 m/s 0.00 … +50.00 °C
Resolution	0.01 m/s 0.01°C
Measuring rate	1 /s
Accuracy	±(0.2 m/s + 3 % of measured value) ±1 °C (0...+50 °C)
Response time T90	≤1.5 s
Operating conditions	0 … +50 °C
Storage temperature	-20 ... +60 °C
Output	DX-Sensor interface M12
Connection (to meter)	5-pole M12
Power consumption	typ. 25 mA @ 0 m/s typ. 45 mA @ 20 m/s
Dimensions	length 357 mm probe tube Ø12 mm 228 mm
Weight	130 g without cable
Material	Handle: ABS, TPU Probe: PC
Protection degree	IP40



STANDARD ARTICLES

DX 970-L1 **Directional hotwire anemometer probe,** measuring range: 0.4 … 20 m/s.
Incl. 1 m M12 connection cable. **Art no. 489347**

ACCESSORIES

CABLE-M12-L01 Connection cable M12 5 pole, 1 m
Art no. 487020

CABLE-M12-L02 Connection cable M12 5 pole, 2 m
Art no. 487021

CABLE-M12-L05 Connection cable M12 5 pole, 5 m
Art no. 487022

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

PRO 921 Multifunctional handheld data logger for digital probes and 2 thermo couple probes Type K, Supplied with 4 x AA alkaline batteries
Art. No. 488743

PRO 925 Multifunctional handheld meter for digital probes and 2 thermo couple probes Type K Supplied with 4 x AA alkaline batteries, USB cable and software downloadable from Senseca website.
Art. Nr. 488744

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