

DX 210 / DX 240

Digital pressure probes with tube port



- Interchangeable
- Low power
- Flexible hose connector
- Compact and rigid stainless steel body
- Fast and accurate
- Temperature compensated
- Optional DAkks/ACCREDIA certification available

DESCRIPTION

DX 210 and DX 240 are series of miniature digital absolute and differential pressure probes for the PRO D01 / PRO D05 handheld meters.

Different ranges available:

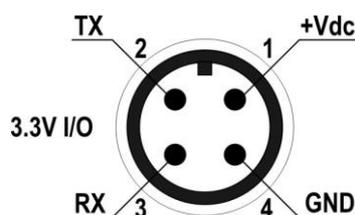
- DX 210-2.5hPa: ± 2.5 hPa differential
- DX 210-20hPa: ± 20 hPa differential
- DX 210-500hPa: ± 500 hPa differential
- DX 210-200kPa: ± 200 kPa differential
- DX 210-700kPa: ± 700 kPa differential
- DX 240-200kPa: 0...200 kPa absolute

The measurement is temperature compensated for enhanced accuracy.

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

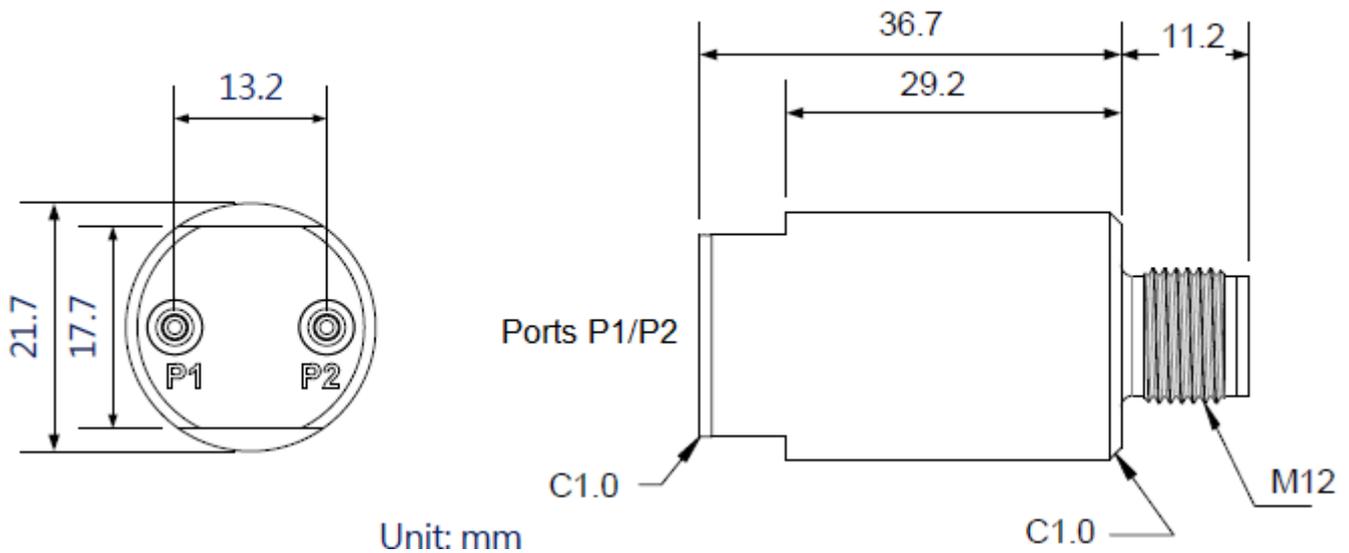
Equipped with 4-pin M12 connector "DX-Sensor standard", connectable to PRO-D0x multifunctional meters.



M12 DX 210/240 sensor pin out

TECHNICAL SPECIFICATIONS

Sensor	MEMS
Measuring range	From ± 2.5 hPa to ± 700 kPa differential or 0...200 kPa absolute depending on model
Resolution	Depending on sensor model
Accuracy	± 0.5 %FS @ 25 °C
Overall error	± 2.5 %FS over the whole compensated temperature range
Warm-up time	2.3 ms
Long-term stability	< 1 %FS / year
Compensated temperature	0...+50 °C
Operating conditions	-25...+85 °C / 0...95% RH non-condensing
Storage temperature	-40...+125 °C
Overpressure	3 x FS
Burst pressure	6 x FS
Output	UART (TTL 3.3V)
Power supply	3.3...6 Vdc
Connection (to meter)	4-pole M12
Connection (to process)	For $\varnothing 6 \times 1$ mm (internal $\varnothing 4$ mm) and $\varnothing 8 \times 1$ mm (internal $\varnothing 6$ mm) hoses. 2 inputs for differential probes, 1 input for absolute probes
Dimensions	$\varnothing 21.7 \times 62$ mm
Weight	74 g approx.
Material	Stainless steel
Protection degree	IP65
Applications	Only air and non-aggressive dry gases



Ordering codes

DX 210-2.5hPa-00-L1-00	Digital differential pressure probe. Measuring range: ± 2.5 hPa. Incl. 1 m M12 connection cable.	Art.No. 486674
DX 210-20hPa-00-L1-00	Digital differential pressure probe. Measuring range: ± 20 hPa. Incl. 1 m M12 connection cable.	Art.No. 486675
DX 210-500hPa-00-L1-00	Digital differential pressure probe. Measuring range: ± 500 hPa. Incl. 1 m M12 connection cable.	Art.No. 486676
DX 210-200kPa-00-L1-00	Digital differential pressure probe. Measuring range: ± 200 kPa. Incl. 1 m M12 connection cable.	Art.No. 486677
DX 210-700kPa-00-L1-00	Digital differential pressure probe. Measuring range: ± 700 kPa. Incl. 1 m M12 connection cable.	Art.No. 486678
DX 240-200kPa-00-L1-00	Digital absolute pressure probe. Measuring range: 0...200 kPa. Incl. 1 m M12 connection cable.	Art.No. 486679

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