



# DX 210 / DX 240

## DX Digital pressure probes with hose connection



- Interchangeable DX sensor, precise
- for PRO Line meters PRO D01/D05/925/595
- Low power consumption
- robust connector for standard Ø6 mm hoses
- Compact and rigid stainless-steel body
- Fast and accurate measuring: up to 1000 /s
- Temperature compensated
- Optional DAkks/ACCREDIA certificates

### DESCRIPTION

DX210 and DX240 are series of compact absolute and differential pressure probes for the PRO D01/D05/925/595 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

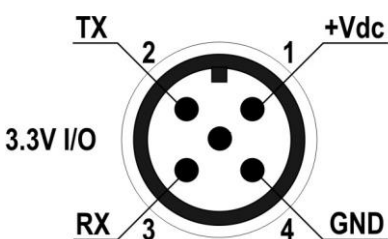
The measurement is temperature compensated for enhanced accuracy.

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

They can be optionally supplied with an ISO 9001 factory calibration or DIN EN ISO/IEC 17025 DAkks/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 925/595 multifunctional meters.



M12 DX 210/240 sensor pin out (a connection-cable is required)



DX 210-20hPa-00-L1: incl. connection-cable

## TECHNICAL SPECIFICATIONS

Sensor type	MEMS
Measuring range	from $\pm 2.5$ hPa to $\pm 700$ kPa differential or 0...200 kPa absolute
Resolution	Depending on sensor model
Measuring rate *)	Normal: internally 1 /s Fast: Internally 1000 /s (update for min/max envelope curve visualization and average, display is updated once per second)
Accuracy	Depending on sensor model
Compensated temperature	0...+50 °C
Operating conditions	-20...+85 °C / 0...95% RH non-condensing
Storage temperature	-20...+85 °C
Output	DX-Sensor interface M12
Connection (to meter)	5-pole M12
Power consumption	Normal: 3.5 mA Fast: 5.5 mA
Connection (to process)	stainless-steel ports for $\varnothing 6 \times 1$ mm (int. $\varnothing 4$ mm) hoses DX 210: 2 ports for differential probes DX 240: 1 port for absolute probes
Dimensions	$\varnothing 21.7 \times 62$ mm
Weight	ca. 130 g
Material	Stainless steel
Protection degree	IP65 (Keep measuring input dry for precise measurement)
Applications	Only air and non-aggressive dry gases

\*) Switching between "Normal" and "Fast" is done in the instrument menu under the respective connection in the "Measuring speed" parameter. The hand-held measuring devices support switching the measuring speed from firmware version V1.3.0.0.

## SENSOR-MEASURING CHANNELS

Displayed name		Description
DX 210	DX 240	
Pdif	Pabs	Last measuring value
MinP	MinP	Minimum value of last second *)
AvgP	AvgP	Average of last second *)
MaxP	MaxP	Maximum value of last second *)

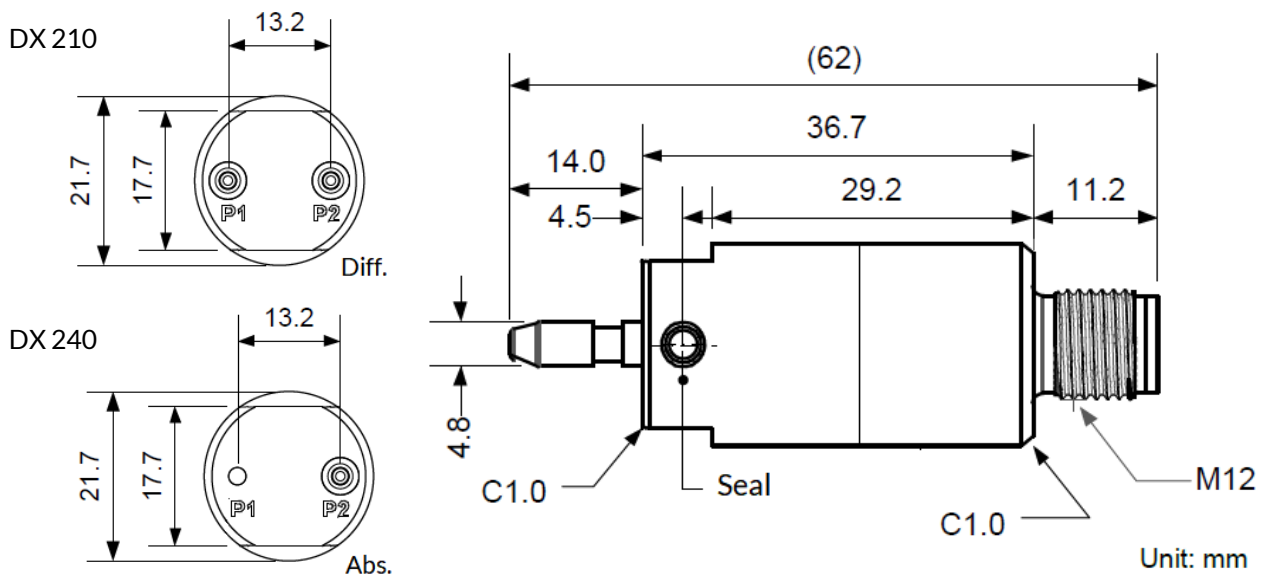
\*) The measuring channels of the sensor are not to be confused with the min/max/ $\varnothing$  values of the hand-held measuring devices. These values are provided for each of the sensor measuring channels.

## MODEL SPECIFIC SPECIFICATIONS: DIFFERENTIAL

Model	DX 210-2.5hPa	DX 210-20hPa	DX 210-500hPa	DX 210-200kPa	DX 210-700kPa
Measuring range	±2.5 hPa diff	±20 hPa diff	±500 hPa diff	±2000 hPa diff	±7000 hPa diff
Resolution	0.0001 hPa /0.01Pa	0.001 hPa /0.1Pa	0.1 hPa	0.1 hPa	1 hPa
Proof Pressure	±25 hPa	±200 hPa	±1,500 hPa	±6,000 hPa	±21,000 hPa
Burst Pressure	±50 hPa	±400 hPa	±3,000 hPa	±12,000 hPa	±35,000 hPa
Accuracy typ. @25°C	1.0 % FS	0.5 % FS	0.25 % FS	0.25 % FS	0.25 % FS
max @25°C	2.5 % FS	1.5 % FS	1.0 % FS	1.0 % FS	1.0 % FS
Total error band	3.0 % FS	2.0 % FS	2.0 % FS	2.0 % FS	1.0 % FS

## MODEL SPECIFIC SPECIFICATIONS: ABSOLUTE / VACUUM

Model	DX 240-200kPa	
Measuring range	0 ... 2000 hPa abs	
Resolution	0.1hPa	
Proof Pressure	±6,000 hPa	
Burst Pressure	±12,000 hPa	
Accuracy typ. @25°C	0.5 % FS	
max @25°C	1.5 % FS	
Total error band	1.5 % FS	



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## STANDARD ARTICLES

<b>DX 210-2.5hPa-00-L1-00</b>	Digital differential pressure probe. Measuring range: $\pm 2.5$ hPa. Incl. 1 m M12 connection cable.	<b>Art no. 486674</b>
<b>DX 210-20hPa-00-L1-00</b>	Digital differential pressure probe. Measuring range: $\pm 20$ hPa. Incl. 1 m M12 connection cable.	<b>Art no. 486675</b>
<b>DX 210-500hPa-00-L1-00</b>	Digital differential pressure probe. Measuring range: $\pm 500$ hPa. Incl. 1 m M12 connection cable.	<b>Art no. 486676</b>
<b>DX 210-200kPa-00-L1-00</b>	Digital differential pressure probe. Measuring range: $\pm 200$ kPa. Incl. 1 m M12 connection cable.	<b>Art no. 486677</b>
<b>DX 210-700kPa-00-L1-00</b>	Digital differential pressure probe. Measuring range: $\pm 700$ kPa. Incl. 1 m M12 connection cable.	<b>Art no. 486678</b>
<b>DX 240-200kPa-00-L1-00</b>	Digital absolute pressure probe. Measuring range: 0...200 kPa. Incl. 1 m M12 connection cable.	<b>Art no. 486679</b>

## ACCESSORIES

<b>GDZ-01</b>	PVC hose 6/4 (6 mm outside- $\varnothing$ , 4 mm inside- $\varnothing$ , 5 bar at 23 °C)	<b>Art no. 601541</b>
<b>GDZ-31</b>	Rubber tube 8/5 (8 mm outside- $\varnothing$ , 5 mm inside- $\varnothing$ , 2 bar at 23 °C, max. 200 °C)	<b>Art no. 606070</b>
<b>CABLE-M12-L01</b>	Connection cable M12 5 pole, 1 m	<b>Art no. 487020</b>
<b>CABLE-M12-L02</b>	Connection cable M12 5 pole, 2 m	<b>Art no. 487021</b>
<b>CABLE-M12-L05</b>	Connection cable M12 5 pole, 5 m	<b>Art no. 487022</b>

## SUITABLE INSTRUMENTS

<b>PRO D01</b>	1-channel handheld meter for digital probes. Supplied with 4 x AA alkaline batteries.	<b>Art no. 486134</b>
<b>PRO D05.2</b>	2-channel handheld data logger for digital probes. Supplied with 4 NiMH rechargeable batteries, USB cable and software downloadable from Senseca website.	<b>Art no. 486136</b>
<b>PRO D05.3</b>	3-channel handheld data logger for digital probes. Supplied with 4 NiMH rechargeable batteries, USB cable and software downloadable from Senseca website.	<b>Art no. 486137</b>

More on [www.senseca.com](http://www.senseca.com)



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