# DX 210 / DX 240



### Digital pressure probes with hose connection



- Interchangeable, precise
- for PRO D01/D05
- Low power
- robust hose 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

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

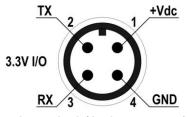
The measurement is temperature compensated for enhanced accuracy.

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

They can be optionally supplied with 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 4-pin M12 connector "DX-Sensor standard", connectable to PRO-D0x multifunctional meters.



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



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

## **TECHNICAL SPECIFICATIONS**

MEMS
from $\pm 2.5$ hPa to $\pm 700$ kPa differential or 0200 kPa absolute
Depending on sensor model
Normal: 1 /s Fast: Internally 1000 /s (update for min/max envelope curve visualization and average)
Depending on sensor model
0+50 °C
-20+85 °C / 095% RH non-condensing
-20+85 °C
DX-Sensor interface M12
5-pole M12
Normal: 3.5 mA Fast: 5.5 mA
stainless-steel ports for $\emptyset$ 6x1 mm (int. $\emptyset$ 4 mm) hoses DX 210: 2 ports for differential probes DX 240: 1 port for absolute probes
Ø21.7 x 62 mm
ca. 130 g
Stainless steel
IP65 (Keep measuring input dry for precise measurement)
Only air and non-aggressive dry gases

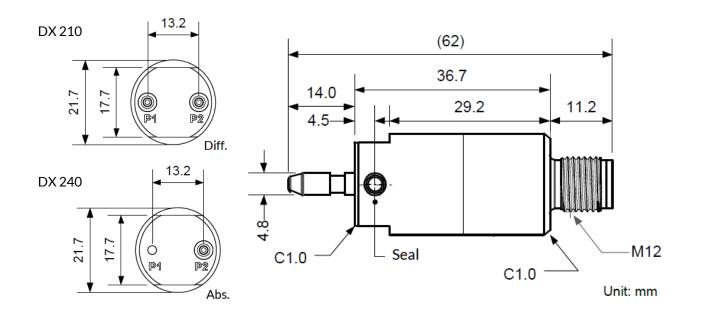
\*) Switching between "Normal" and "Fast" is done in the instrument menu under the respective connection in the "Measuring speed" parameter. The hand-held measuring devices support switching the measuring speed from firmware version V1.3.0.0.

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/Ø values of the handheld 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	±200 kPa diff	±700 kPa diff	
Resolution	0.0001 hPa /0.01Pa	0.001 hPa /0.1Pa	0.1 hPa	0.1 kPa	0.1 kPa	
Proof Pressure	10x FS	10x FS	3x FS	3x FS	3x FS	
Burst Pressure	20x FS	20x FS	6x FS	6x FS	5x FS	
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	0200 kPa abs		
Resolution	0.01 hPa/ 0.1hPa		
Proof Pressure	3x FS		
Burst Pressure	6x FS		
Accuracy typ. @25°C	0.5 % FS		
max@25°C	1.5 % FS		
Total error band	1.5 % FS		



#### **STANDARD ARTICLES**

DX 210-2.5hPa-00-L1-00 Digital differential pressure probe. Measuring ran Incl. 1 m M12 connection cable.		Pa.
		Art no. 486674
DX 210-20hPa-00-L1-00	Digital differential pressure probe. Measuring range: $\pm 20$ hF Incl. 1 m M12 connection cable.	Pa.
		Art no. 486675
DX 210-500hPa-00-L1-00	Digital differential pressure probe. Measuring range: $\pm 500$ k Incl. 1 m M12 connection cable.	ıPa.
		Art no. 486676
DX 210-200kPa-00-L1-00	Digital differential pressure probe. Measuring range: $\pm 200$ k Incl. 1 m M12 connection cable.	(Pa.
		Art no. 486677
DX 210-700kPa-00-L1-00	Digital differential pressure probe. Measuring range: $\pm 700$ k Incl. 1 m M12 connection cable.	κPa.
		Art no. 486678
DX 240-200kPa-00-L1-00	Digital absolute pressure probe. Measuring range: 0200 kl Incl. 1 m M12 connection cable.	Pa.
		Art no. 486679

## ACCESSORIES GDZ-01 PVC hose 6/4 (6 mm outside-Ø, 4 mm inside-Ø, 5 bar at 23 °C) Art no. 601541 GDZ-31 Rubber tube 8/5 (8 mm outside-Ø, 5 mm inside-Ø, 2 bar at 23 °C, max. 200 °C) Art no. 606070 CABLE-M12-L01 Connection cable M12 5 pole, 1 m CABLE-M12-L02 Connection cable M12 5 pole, 2 m Art no. 487020 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	batte	ries	5.
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#### 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