

Datasheet | base BDP

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Differential Pressure
Transmitter

The simplest way of
precise measurement.



Highlights:

- Differential pressure transmitter engineered for HVAC applications
- Individual measuring ranges from -30... 30 Pa to -1... 1 bar freely selectable
- Overall Accuracy of 1% FS for all available ranges
- Excellent long term stability of <0,1% FS/year
- Easy to install on the wall
- Smart PCB design for optimum cost efficiency
- All common analog output signals selectable
- Optional display

Technical Data

Measurement data	
Measurement range	Selectable via model code Possible ranges: Lower end of range: 0 Pa <u>OR</u> any value from -30 to -100.000 Pa in 1 Pa-steps selectable Upper end of range: 0 Pa <u>OR</u> any value from +30 to +100.000 Pa in 1 Pa-steps selectable <i>Minimum difference between lower and upper end of range: 30 Pa</i>
Units	Selectable via model code Pascal [PA] hektopascal [HP] millibar [MB] inch Water Column [WC]
Overall accuracy	1,0 % FS (Full Scale)
Long-term stability:	≤ 0,1% FS/Year
Temperature drift	≤ 0,03% FS/K
Overpressure limits	Overpressure: 700 mbar Burst pressure: 2000 mbar
Time constant	50 ms
Electrical data	
Power supply	22...27 VAC (50 Hz) / 19...31 VDC
Output signal	Selectable via model code 0... 10 V [010] 2... 10 V [210] 5... 10 V [510] 4... 20 mA [420] 0... 20 mA [020]
Electrical connections	Spring loaded terminals max. 2.5 mm ²
Ambient conditions	
Operating conditions	Humidity: 0... 95% rF non-condensing Temperature: -40°C... 80 °C
Storing conditions	Humidity: 0... 95% rF non-condensing Temperature: -40°C... 80 °C
Ambient pressure	600 ... 1200 hPa

Housing	
Dimensions	86 x 56 x 40 mm (H x W x D)
Material	Grilamid XE4073 PA610
Pressure connections	Ø 6,6 x 10 mm stainless steel
Cable glands	Skintop M16 x 1,5 mm (4,5 - 10 mm)
Protection type	IP65
Display	Option selectable via model code Display [D]

Model Code

Beispiel Example		BDP	0	50	PA	010	D
Model name	Base differential pressure	BDP					
Range Differential pressure (lower value)	Measuring range in the desired unit, e.g. "0" for the desired measuring range of 0... 50 Pa	XX					
Range Differential pressure (upper value)	Measuring range in the desired unit, e.g. "50" for the desired measuring range of 0... 50 Pa	XX					
Unit Differential pressure	Pa	PA					
	hPa	HP					
	mbar	MB					
	inch WC	WC					
Output signal	0-10 V	010					
	2-10 V	210					
	0-5 V	005					
	4-20 mA	420					
	0-20 mA	020					
Display	Display	D					
	None	X					