



# Differential pressure Transmitter PCE-DDMU 10



## PCE-DDMU 10 differential pressure transducer

**Digital differential pressure transducer with analogue output / High accuracy / For differential and relative pressure measurement / Selectable measuring ranges**

The PCE-DDMU 10 differential pressure transducer has user selectable pressure ranges, selectable analogue outputs, and an optional LCD display. These differential pressure transducers are supplied via the operating network. You can reconfigure the measuring devices on-site at any time with just a few simple steps. The long-term stability is better than 0.5% based on the full measuring range. The microprocessor-controlled electronics guarantee high accuracy ( $\pm 0.5\%$  of the measuring range). In addition to being used in the process (to power a remote display or a regulator) as fixed or wall-mounted units, the differential pressure transducers can also be used as an on-site meter or even mobile. The optional LCD display allows on-site reading. With the help of the automatic zero setting, the measuring devices can be quickly reset on site. The analogue output can also be used in combination with the optional datalogger offered by us in the accessories. This allows you to record the differential pressure readings over a longer period of time, later transfer the stored data to a computer and analyze it there.

- ▶ Switchable measuring ranges
- ▶ High overload capacity
- ▶ Adjustable damping
- ▶ Compact design
- ▶ Max.  $\pm 0.5\%$  accuracy
- ▶ Optional display
- ▶ Switching outputs
- ▶ Radiated output signal

Subject to change

# Specifications

Measuring ranges	Adjustable by the user	Max. static pressure
1.6 mBar	1.0 mBar	200 mbar
4.0 mBar	2.5 mBar	200 mbar
10 mBar	6 mbar	200 mbar
40 mBar	25 mbar	345 mbar
250 mBar	60/160 mbar	1000 mbar
10000 mBar	400/600 mbar	3000 mbar
± 1.6 mBar		200 mbar
± 4 mBar		200 mbar
± 10 mBar		200 mbar
± 40 mBar		345 mbar
± 250 mBar		1000 mbar
± 1000 mBar		3000 mbar
Media	Gases Air	
Exit	3-wire switchable: 0 ... 10 V / 0 ... 20 mA 0 ... 5 V / 4 ... 20 mA  2-wire: 4 ... 20-mA	
Response time	<100 ms Damping adjustable via potentiometer 0 ... 5000 ms	
Long-term stability	≤ ± 1% FSO / year PN <6 mbar ≤ ± 0.5% FSO / year for PN ≥ 6 mbar	
Measuring rate	12.5 Hz	
Switching output	For 3-wire version: 2 x 230V / 2A change-over relays  For 2-Wire variant: 2 x PNP Open collector output	
Temperature error	≤ ± 0.5% FSO / 10 K (typ.) For PN <6 mbar ≤ ± 0.3% FSO / 10 K (typ.) For PN ≥ 6 mbar	
Operating conditions	Medium: 0 ... 50°C / 32 ... 122°F Environment: 0 ... 50°C / 32 ... 122°F	
Storage conditions	-10 ... 70°C / 14 ... 158°F	

# More information

Manual



More product info



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Short circuit resistance	Permanent
Reverse polarity protection	No damage but no function
EMC	EMC Directive: 2014/30 / EU Emitted interference and Immunity to EN 61326
Pressure connection	Brass
Standard	Ø 6.6 x 11 (for flexible hoses with Ø
Optional	6) Ø 4.4 x 10 (for flexible hoses with Ø
	4)
Casing	SECTION
Sensor	Ceramic, silicon
Media contacting parts	Pressure connection, PVC / silicone, sensor
Display (optional)	2-line LC display Display accuracy : 0.1% + 1 digit
Additional functions with display	- Parameterization of the switching outputs - Selection of the unit - Selection of the transfer characteristic (linear, radiated) - Cut-off function (radiated output signal) - Min./max . Value display - Recalibration - Autozero function - Factory setting
Power supply	3 conductors: 19 ... 32V 2 conductors: 11 .. 32V With automatic zeroing: 24 ... 32V
Current consumption	3-wire: 30-mA 2-wire: 22-mA
Weight	About 200 g / < 1 lb
Protection	IP 54
Dimensions	152 x 68.5 x 50 mm / 6 x 2.7 x 2 in

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