



## DIFFERENTIAL PRESSURE TRANSDUCER SERIES PXWD

Differential pressure transducers with LED display inbuilt, are used to measure differential pressure of gases and liquids also chemical aggressive. Using display, direct readout of measured pressure is possible at the place of measurement.

Measuring element is a piezo-resistive sensor which is separated from medium by stainless steel diaphragm.

### TECHNICAL DATA

Pressure ranges $\Delta p = p^+ - p^-$	bar	0,1	0,2	0,5	1	2	5	10	20
Overpressure ( $p^+$ )	bar	2,5	2,5	2,5	3	4	7	15	30
Overpressure ( $p^-$ )	bar	1	1	1	1	2	3	5	10
Allowable static pressure	bar	8	8	8	8	8	20	40	80

Pressure ranges $\Delta p = p^- - p^+$	bar	-0,1 ÷ 0	-0,2 ÷ 0	-0,5 ÷ 0	-1 ÷ 0
Overpressure	bar	-1 ÷ 2	1 ÷ 2	1 ÷ 2	1 ÷ 2

1.	Power supply	18,5 ÷ 36 VDC for 4 ÷ 20 mA, current loop 15 ÷ 30 VDC for all output signals, three wires output
2.	Output signals	4 ÷ 20mA $R_{load} \leq (U_B - 15)V / 0,02A$ 0 ÷ 20mA $R_{load} \leq (U_B - 6)V / 0,02A$ 20 ÷ 0mA $R_{load} \leq (U_B - 6)V / 0,02A$ 0 ÷ 10V $R_{load} > 10\text{ k}\Omega$ 0 ÷ 5V $R_{load} > 10\text{ k}\Omega$
3.	Accuracy	$\leq 0,5\% \text{ MR}$ (option $\leq 0,25\% \text{ MR}$ )
4.	Long term accuracy	$\leq 0,5\% \text{ MR} / \text{year}$
5.	Temperature	ambient ..... -20 ÷ +80°C medium ..... -30 ÷ +80°C storage ..... -30 ÷ +80°C
6.	Temperature error within 0 ÷ 50°C	null error ..... $\leq 0,2\% \text{ MR} / 10^\circ\text{C}$ range error ..... $\leq 0,3\% \text{ MR} / 10^\circ\text{C}$
7.	Zero adjustment	10% MR
8.	Rangeability	75%MR, 50%MR, 25%MR
9.	Display	For 4 ÷ 20 mA: - LED, red, 4 digits, 10 mm, For others: - LED, red, 3½ digits, 10 mm,
10.	Process connection	G½", M20x1,5 or others
11.	Electrical connection	DIN43650
12.	Materials	diaphragm ..... steel 316L or Hastelloy process connections ... steel 316 enclosure ..... AL - alloy
13.	Enclosure protection	IP 65
14.	Mass	1300 g

### DIMENSIONS

