

DIFFERENTIAL PRESSURE TRANSDUCER SERIES PXWD

Differential pressure transducers with LED or LCD 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

1.	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

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| 2. | Power supply | 19,5 ÷ 36 VDC for 4 ÷ 20 mA and LCD
15 ÷ 30 VDC for all output signals, LED,
three wires output |
| 3. | Output signals | 4 ÷ 20mA $R_{load} \leq (U_B - 10) V / 0,02A$
0 ÷ 20mA $R_{load} \leq (U_B - 6) V / 0,02A$
20 ÷ 0mA $R_{load} \leq (U_B - 6) V / 0,02A$
0 ÷ 10V $R_{load} > 10 k\Omega$
0 ÷ 5V $R_{load} > 10 k\Omega$ |
| 4. | Accuracy | $\leq 0,5\% MR$ (option $\leq 0,25\% MR$) |
| 5. | Long term accuracy | $\leq 0,5\% MR / year$ |
| 6. | Temperature | ambient -20 ÷ +80°C
medium -30 ÷ +80°C
storage -30 ÷ +80°C |
| 7. | Temperature error within
0 ÷ 50°C | null error..... $\leq 0,2\% MR / 10^\circ C$
range error..... $\leq 0,3\% MR / 10^\circ C$ |
| 8. | Zero adjustment | 10% MR |
| 9. | Rangeability | 75% MR, 50% MR, 25% MR |
| 10. | Display | 3.5 digits, LED 10mm, LCD 8mm |
| 11. | Process connection | G1/2", M20 x 1,5 or others |
| 12. | Electrical connection | DIN43650 |
| 13. | Materials | diaphragm steel 316L or Hastelloy
process connections ... steel 316
enclosure..... AL - alloy |
| 14. | Enclosure protection | IP 65 |
| 15. | Mass | 1300 g |

DIMENSIONS

