

Differential Pressure Transmitter With Display

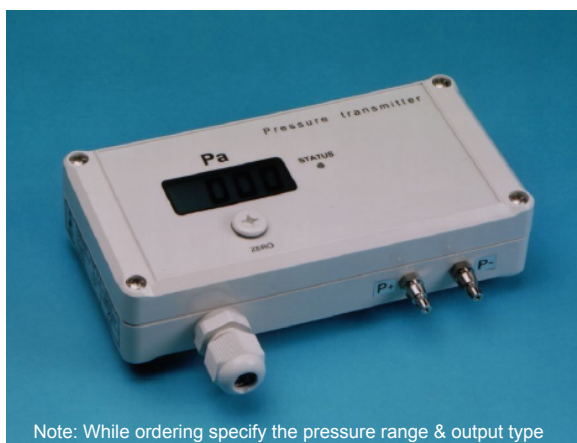
Description:

These pressure transmitters with display measure differential and absolute pressure, overpressure, vacuum and velocity of flow in air and non aggressive gases. The measured values are directed to a 4-20 mA analog output (standard) or a 0-10V output (optional). They are shown on a 3.5-digit LED-Display with a figure height of 12.7 mm.

The use of piezoresistive cells for differential pressure sensing makes the pressure transmitter highly reliable & precise. The enclosure has protection class IP65. It is suitable for wall-mounting installation. The user is warned against overload pressure by a red LED on the front.

This pressure transmitter is complemented with several additional options:

- Switching output with display switching level and LED on the front
- Delay of analog output and delay of switching output of 60 seconds possible
- Power supply 24 VDC, 24 VAC or 230 VAC
- Square root output for measuring velocity of flow



Note: While ordering specify the pressure range & output type

Applications:

- control of blowers
- supervision of airfilters
- mechanical- and system engineering
- environmental technology
- liquid level control
- ventilating systems
- differential pressure monitoring in cleanrooms
- medical engineering

Technical data (differential pressure):

pressure range [mbar]	pressure range [kPa]	max. overload pressure [mbar]	linearity error max. [± % F.S.]	temperature error max. [± % F.S.] 0-50 °C	long-term-stability [% F.S. per year]	repeat-precision [% F. S.]	time of response output [ms] without damping
0 - 0.5	0 - 0.05	250	0,8	3	3	2	100
0 - 2.5	0 - 0.25	250	0.8	2	2	0.3	10
0 - 5	0 - 0.5	350	0.8	1	1	0.3	10
0 - 10	0 - 1	350	0.8	1	0.5	0.2	10
0 - 25	0 - 2.5	350	0.7	1	0.1	0.1	10
0 - 50	0 - 5	350	0.7	1	0.1	0.1	10
0 - 100	0 - 10	350	0.5	1	0.1	0.1	10
0 - 1000	0 - 100	triple	0.5	1	0.1	0.1	10
0 - 10bar	0 - 1000	x 1.2	0.5	2	0.1	0.1	10

Technical data (absolute pressure):

700-1100	70-110	triple	± 0.9 mbar	2.3 mbar	0.1	0.1	10
----------	--------	--------	------------	----------	-----	-----	----

Specification:

Operation temperature range: -20 to +50 °C

Hysteresis: 0.1% (range 0-50 Pa 2 %, range 0-100 Pa 1 %)

Medium: air and all not aggressive gases

Power supply and output signals:

U_{supply} : 15-30 VDC or VAC
analog output: 0-10 V
load: R_L >= 2 kΩ

Connections: electrical: cable glands PG9 / screw clamps for 0.14-1.5 mm²
pneumatical: 2 connections for tubes with 4 mm or 6 mm diameter inside

Option 230 VAC power supply: 230 VAC +/- 10 %

Option 4-20 mA transmitter: analog output: 4-20 mA
burden resistor: R_b = 20 ... 100 Ω

Weight: ca. 200 g

Protection class: IP 65