

DIFFERENTIAL PRESSURE TRANSMITTER



for low and differential pressure

with or without LCD display

Accuracy 1 % and 0,6 %

Standard output 4...20 mA; 2-wire



Description

Pressure transmitters of this type measure overpressure, vacuum, difference- and absolute pressure and velocity of flow in air and non aggressive gases.

The measuring ranges extend from 0...0,25 mbar up to 0...1000 bar.

Measuring values are directed to a 0-10 V analog output or frequency output 0-10 kHz or 4-20 mA output.

They are shown on a 3.5-digit LCD-display with a figure height of 12,7 mm.

Because of using piezoresistive cells pressure transmitter reaches high reliability and precision. Enclosure of transmitter has protection class IP65.

It is suitable for wall-mounting installation.

User is warned against overload pressure by a red LED on the front.

Features



- high reliability
- 3,5-digit LCD display

Measuring range differential pressure

Overpressure 0...0,25 mbar up to 0...1000 mbar

Applications

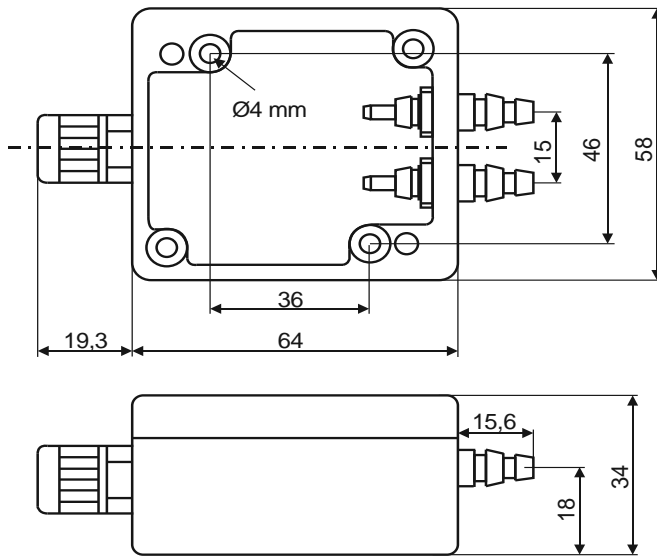
- control of airblowers
- supervision of airfilters
- mechanical- and system engineering
- environmental technology
- liquid level control
- pressure control in cleanrooms or spray chambers
- ventilating systems
- medical engineering

Type	5356	5357
		
Display	no	yes
Pressure	Overpressure or differential pressure	
Output signal	4...20 mA - 2-wire	
Options output signal	0...10 V	
Hysteresis	0,10%	0,1% (0-50 Pa 2%)
Sensor	piezoresistive	
Electrical connections	Screw clamps for 0,14-1,5 mm ²	
Pressure connections	2 connections for tubes with 6 mm or 4 mm ²	
Cable gland	PG7	PG 9
Medium	only for air and dry and non aggressive gases	
Operation temperature range	-20 up to + 50°C	
Power supply	15 ... 30 VDC	
Burden resistor	20 ... 400 Ω for output 4... 20 mA	
Protection	IP 65 according to EN 60529 / IEC 529	
Case	Coated cast aluminium, light grey	ABS
Weight	approx. 170 g	approx. 200 g

Technical data (differential pressure)

Type	Pressure range (mbar)	max. overload pressure (mbar)	Linearity error max. (±% v. EW)	Temperature error max. (±% v. EW) 0-50°C	Long term stability (% v.EW/Jahr)	Repeat - precision (%v. EW)	Response time of output (s) with damping
5356	0 - 2,5	0 - 0,25	350	1,0	2	0,3	2,5
	0 - 5	0 - 0,5	350	1,0	2	0,3	2,5
	0 - 10	0 - 1	350	1,0	0,5	0,2	2,5
	0 - 25	0 - 2,5	350	0,8	0,5	0,1	2,5
	0 - 50	0 - 5	350	0,8	0,5	0,1	2,5
	0 - 100	0 - 10	350	0,8	0,5	0,1	2,5
	0 - 250	0 - 25	x 4	0,5	0,1	0,1	2,5
	0 - 500	0 - 50	x 4	0,5	0,1	0,1	2,5
	0 - 1000	0 - 100	x 2	0,5	0,1	0,1	2,5
	5357	0 - 0,5	0 - 0,25	250	0,8	3	2
0 - 2,5		0 - 0,25	250	0,8	2	0,3	2,5
0 - 5		0 - 0,25	350	0,8	1	0,3	2,5
0 - 10		0 - 0,25	350	0,8	1	0,2	2,5
0 - 25		0 - 0,25	350	0,7	1	0,1	2,5
0 - 50		0 - 0,25	350	0,7	1	0,1	2,5
0 - 100		0 - 0,25	350	0,5	1	0,1	2,5
0 - 1000		0 - 0,25	x 3	0,5	1	0,1	2,5
0 - 10bar		0 - 0,25	x 1,2	0,5	2	0,1	2,5

Type 5356



Type 5357

