



Pressure Transmitter DS 1 and DS 2 for small pressure, vacuum and differential pressure
Ranges from 0/2.5 mbar to 0/1000 mbar
Analogue Output 0-10 V or 4-20 mA

- Supervision of airblowers and airfilters
- Supervision of liquidlevels
- Controlling of aircurrents
- Pressure controlling in clean rooms
- Medical engineerings



Description:

The pressure transmitter DS 1 and DS 2 are measuring positive and negative overpressure and differential pressure. An absolute pressure type is also available. The piezoresistive sensor gives a high reliability and precision. The type DS 2 (low cost version) is designed for applications with less requirements regarding the temperature-stability.

The DS 1 and DS 2 have a very robust aluminium housing, this guarantees also very good EMV-properties.

An individual inspection certificate is included in standard supply.

Available Types:

Type	Output Signal
DS 1-010	0-10 V (3-wire)
DS 1-420	4-20 mA (2-wire)
DS 2-010	0-10 V (3-wire) Low Cost Version

Pressure Ranges (Type DS 1):

Pressure Range (mbar)	Pressure Range (kPa)	Over-pressure (mbar)	Linear error max.	Temp. error (max) 0-50°C	longtime Stability	Repeat-ability	Response time
0 - 2.5	0 - 0.25	250	± 1% FS	± 2% FS	2% / year	0.3% FS	1 ms
0 - 5	0 - 0.5						
0 - 10	0 - 1						
0 - 25	0 - 2.5	375	± 0.6% FS	± 0.7% FS	0.1%/year	0.1% FS	
0 - 100	0 - 10	750					
0 - 250	0 - 25	1125					
0 - 500	0 - 50	triple					
0 - 1000	0 - 100						
700-1100 absolute	70-110 absolute	triple	±0.9 mbar	±2.3 mbar	0.1%/year	0.1% FS	1 ms





Technical Data (Type DS):

Operating temperature:	-20°C to +70°C		
Hysteresis:	0.1%		
Compatible media:	Air, non-corrosive gases		
Output signals:	Type DS 1-010: 0-10 V	RL ≥ 2 kΩ	Power supply: 15...24 VDC
	Type DS 1-420: 4-20 mA	RL ≤ 400 Ω	Power supply: 10...30 VDC
Electrical connection:	Depth clamps for 0.14-1.5 mm ²		
Cable thread joint:	PG 7		
Pressure connections:	2 connections for hose with 4 mm inner diameter		
Weight:	appr. 160 g		
Protection:	IP 65		

Wiring:

Type DS 1-010:	printclamp 1: +15...+24 VDC	
	printclamp 2: output 0-10 V	
	printclamp 3: GND	
Type DS 2-010:	printclamp 1: +15...+24 VDC	
	printclamp 2: GND (Masse)	
	printclamp 3: output 0-10 V	
Type DS 1-420:	Because of a special additional circuit, the pressure transmitter cannot be damaged by wrong connection. Both pins are exchangeable	

Dimension:

