Differential pressure transmitter

The type 401 series Differential pressure transmitters, with their unique new ceramic lever technology, have calibrated, temperature-compensated sensor signals, available as a voltage output.

The (VDC) voltage output is an amplified, linear signal suitable for direct processing in electronic control systems.

The distinct advantages

- **Special development for optimize of combustion mixture in gas boilers**
- **With the special diaphragm geometry inherently stable due to homogeneous manufacture with (plastic-caoutchouc)**
- **Ideal dimensioning for high sensitivity and with long-time stability**
- **Best repeatability even in the lower pressure range (< 20 Pascal)**

Differential pressure transmitter

0 - 3 / 0 - 5 mbar

Pressure range gradation and executions see order code selection table
(PDF Datasheet)

Description

Technical data

Medium	Air, neutral gases			
Overload	25 mbar (100 mbar shortly at room temperature)			
Rupture pressure	200 mbar			
Accuracy	**Transmitter - type**	**3 mbar**	**5 mbar**	**Unit**
	Zero point tolerance	≤ ± 0.5	≤ ± 0.5	≤ % FS
	Tolerance full scale	≤ + 0,5 to - 1,5% FS	≤ + 0,5 to - 1,5% FS	% FS
	Linearity, hysteresis and			

	repeatability	< ± 0.3	< ± 0.3	% FS
	long-term stability	< ± 1.0	< ± 1.0	% FS
	TC zero point	< ± 0.02	< ± 0.02	% fs/K
	TC zero point	< ± 0.03	< ± 0.03	% fs/K
	TC sensitivity	< ± 0.01	< ± 0.01	% fs/K
	Positional 误差 0 - 90°	4.0	2.6	% FS
Leack rate	< 5 cm3/h (air) measuring range			
Materials in contact with the medium	Cover: polypropylene (PPO)			
	Diaphragm: LSR (Liquid Silikon Rubber)			
	Sensor: Ceramic $AL_2 0_3$ / glass			
Temperature influences	Medium and ambient temperaturer			
	0°C up to + 70°C			
	Storage temperatur 1 - 15°C to + 70°C			
Dynamic response	Response time:			
	< 10 ms / Load cycle: < 10 Hz			
Outputs and power supply	Power supply: Nominal 12 VDC (10.4 ... 18 VDC)			
	Power supply possible up to 28 VDC			
	(with higher starting drift)			
	Output: 0.5 ...4.5 VDC			
Load	> 15 kOhm (against GND)			
Current consumption	< 8 mA			