Differential pressure transmitter — Type 696

Technical data

The Differential pressure transmitters of the type 696 series with new, unique ceramic fulcrum lever technology habe calibrated, temperature-compensated sensor signals that are available as voltage outputs.

They are ideally suitable for registering of fine air flow in air conditioning technology and for measuring fine pressures in the environmental/medical technology sectors.

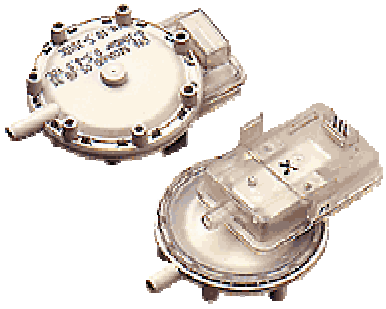
The distinct advantages

- **Attractive price/performance ratio**
- **Excellent synergy of diaphragm technology and ceramic elements**
- **Special adapter for top-hat rail mounting**
- **Direct pcb mounting with simple snap-on system**

Differential pressure transmitter — Type 696

0 - 10 / 30 / 50 mbar

Pressure range gradation and executions see order code selection table



Description

Technical data

		0 – 10 mbar			0 – 30 mbar			0 – 50 mbar		
Parameter	**Unit**	**min.**	**typ.**	**max.**	**min.**	**typ.**	**max.**	**min.**	**typ.**	**max.**
Outputs:										
Zero point horizontal	V	0.475	0.500	0.525	0.475	0.500	0.525	0.475	0.500	0.525
Zero point vertical[1)]	V	0.475	0.500	0.525	0.475	0.500	0.525	0.475	0.500	0.525
Final value horizontal	V	4.465	4.500	4.535	4.475	4.500	4.525	4.475	4.500	4.525

Final value vertical[1)]	V	4.450	4.500	4.550	4.475	4.500	4.525	4.475	4.500	4.525
Linearity	% FS	-0.3	+/-0.2	+0.3	-0.3	+/-0.2	+0.3	-0.3	+/-0.2	+0.3
Hysteresis	% FS		0.2	+0.3		0.1	+0.2		0.1	+0.2
Long-term stability[2)]	% FS	0.5			0.5			0.5		
(**zero point**)										
TC zero point[3)]	% fs/°C	-0.04	+/-0.02	+0.04	-0.04	+/-0.02	+0.04	-0.04	+/-0.02	+0.04
TC sensitivity[3)]	% fs/°C	-0.04	+/-0.02	+0.04	-0.04	+/-0.02	+0.04	-0.04	+/-0.02	+0.04

1) On change of position pressure horizontal on vertical, ca. -11 Pascal.

2) Long-term stability in % fs over 1 year

3) TC = temperature coefficient

Test conditions: 25°C, 45% rF
TC zero point / TC sensitivity 0 – 70°C

Medium	Neutral gases, air	
Overload allowed	up to 200 mbar	
Rupture pressure	500 mbar	
Case construction	Polycarbonat (PC)	
Diaphragm	Silicone-polymer	
Temperature influences	Medium temperature	0 - 70 °C
	Ambient temperature	0 - 50 °C
	Storage temperature	-10 °C up to +70 °C
Dynamic response	Response time	< 10 ms
	Load cycle	< 10 Hz

Outputs and power supplies	Output:	0.5 - 4.5 VDC
	Power supply:	10.5 - 35 VDC
Load	> 30 kOhm	
Electrical connections	Female connector for on-board pin connector	
	3-pin connector	