

Differential pressure transmitter

Type 698

Technical

The type 698 series of differential pressure modules is especially suitable for data monitoring air flow and differential pressure in air conditioning systems.

The versions with and without liwith switches are supplied in casings of different sizes. The modules are available with or without a circuit for square root extraction.

One of three standardized analog output signals can be factory-set or selected by the user.

The built-in Differential pressure transmitter, with its unique ceramic fulcrum lever technology (see cross-sectional drawing) is a device in the Huba type 696 / 697 series.

The distinct advantages

- **Rugged measured value detector, owing to outstanding synergy obtained by combining diaphragm technology with a ceramic element**
- **High overpressure safety margin, even in the lowest pressure range**
- **Easy to install an commission**
- **No maintenance required**

Differential pressure transmitter

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0 up to 1 / 3 / 5 / 10 / 30 / 50 mbar

Pressure range gradation and executions see order code selection table

Description



Technical data

Medium	Neutral gases, air
Admissible overpressure	up to 200 mbar

Rupture pressure	500 mbar	
Case construction	Case:	ABS self-extinguishing
	Sensor:	Polycarbonate PC
Diaphragm	Silicone polymer (LSR)	
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
Display	Liquid-crystal, 3 1/2 digit	
	Character heigh 12 mm	
	Unit see order code selection table	
	Status display for limit value 1 with symbol ^	
	Status display for limit value 2 with symbol ~	
	Display accuracy	
	误差 at 23 °C ambient temperature ≤ +/- 0.3 % fs	
Pressure connections	Hose connection branch conical, diameter 4 to 7 mm	
	to the right P1 = higher pressure / lower vacuum	
	to the left P2 = lower pressure / higher vacuum	
Outputs and power supply	See order code selection table	
Square root extraction	Two versions available, depending on application	
	- Digital circuit with 误差	≤ 1 %
	- Simple diode circuit with 误差	≤ 6 %
	Potentiometer for user-adjustment of display in %	
Load	Voltage output	≥ 2 kOhm
	Current output	≤ 500 Ohm

Power consumption	approx. 2 VA
Electrical connections	Internal screw terminals, diameter 1.5 mm ² innenlegend,
	PG 9 screw fittings
Protection class	without display IP 54 / with display IP 42