

Differential pressure transmitter

testo 6321

Measurement of differential pressure in the measuring range from 100 Pa to 2 bar

Magnet valve for the automatic zero-point adjustment guarantees high temperature-independent accuracy and long-term stability

Adjustment and analysis via parameterization and adjustment software save time and costs in commissioning and maintenance

Available with and without display



A differential pressure transmitter with a good price/ performance ratio for applications in air conditioning and ventilation technology.

The testo 6321 is excellently suitable for the differential pressure-based monitoring of air filters, blowers and air flow, for a good climate with optimum energy efficiency.

The highly accurate and long-term stable testo 6321 provides the measurement values needed to monitor and regulate differential pressure safely and efficiently in air conditioning, ventilation and cleanroom technology.





Technical data

Measurement parameters Differential pressure

Measuring range	0 to 100 Pa	-100 to 100 Pa
	0 to 10 hPa	-10 to 10 hPa
	0 to 20 hPa	-20 to 20 hPa
	0 to 50 hPa	-50 to 50 hPa
	0 to 100 hPa	-100 to 100 hPa
	0 to 500 hPa	-500 to 500 hPa
	0 to 1000 hPa	-1000 to 1000 hPa
	0 to 2000 hPa	-2000 to 2000 hPa

Measurement uncertainty*		
Sensor	Piezoresistive senso	r

		J1
Autom. zero-point adjustment	via magnetic valve	
Overload capacity	Measuring range 0 to 100 Pa 0 to 100 Pa 0 to 10 hPa 0 to 20 hPa 0 to 50 hPa 0 to 500 hPa 0 to 5000 hPa 0 to 1000 hPa 0 to 2000 hPa -100 to 100 Pa -10 to 10 hPa -20 to 20 hPa -50 to 50 hPa -100 to 100 hPa -500 to 500 hPa -1000 to 1000 hPa	

General

Housing		
Material / colour	ABS / white (RAL 9010) or light gre	

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Weight	Approx. 160 g	
Display	'	
Display	2-line LCD (optiona	ıl)
Resolution	Measuring range 0 to 100 Pa 0 to 10 hPa 0 to 20 hPa 0 to 50 hPa 0 to 500 hPa 0 to 500 hPa 0 to 500 hPa 0 to 500 hPa -100 to 100 Pa -100 to 100 Pa -10 to 10 hPa -20 to 20 hPa -50 to 50 hPa -100 to 100 hPa -100 to 100 hPa -2000 to 500 hPa -1000 to 500 hPa -1000 to 500 hPa -2000 to 2000 hPa	
Miscellaneous		
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-2000 to 2000 fira 1 fira
IP65 only when the transmitter is wired and/or sealing plugs are in use
EC guideline: 2004/108/EC
Every 60 seconds ex-works

Inputs and outputs

Analog outputs

0 to 1/5/10 V (4-wire) 4 to 20 mA (4-wire)	
1/s	
12 bit	
0 to 1 V ±2.5 mV 0 to 5 V ±12.5 mV 0 to 10 V ±25 mV 4 to 20 mA ±0.05 mA	
500 Ω	
Mini DIN for P2A software (adjustment and parameterization software)	
20 to 30 V AC/DC	
300 mA	

-2000 to 2000 hPa 2500 hPa

Operating conditions

Temperature of medium	-5 to +50 °C
Humidity of medium	0 90 %RH
Operating temperature	-5 to +50 °C
Storage temperature	-20 to +60 °C

The determination of measurement uncertainty takes place according to GUM (Guide to the Expression of Uncertainty in Measurement):

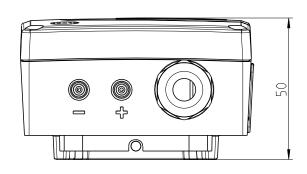
For the determination of measurement uncertainty, the accuracy of the measuring instrument (hysteresis, linearity, reproduceability), the uncertainty contribution of the test site as well as the uncertainty of the adjustment site (works calibration) are taken into account. For this purpose, the value of k=2 of the extension factor, which is usual in measurement technology is used as a basis, which corresponds to a trust level of 95%.

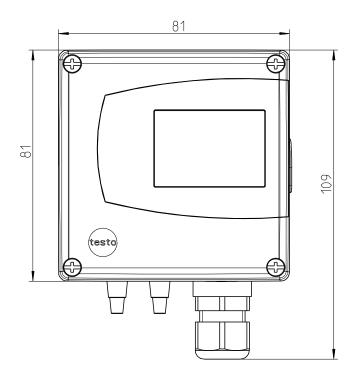




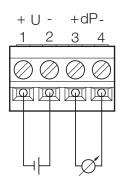
Technical drawings / Connection plan

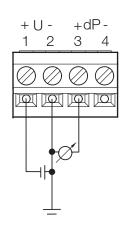
Technical drawings





Connection plan







Options / Ordering example

The following options can be specified for the testo 6321

AXX Measuring range BXX Analog output/supply

CXX Display

EXX Housing colour

FXX Unit

Delivery incl. wall holder

AXX Measuring range

A03 0 to 100 Pa A05 0 to 10 hPa A06 0 to 20 hPa A07 0 to 50 hPa A08 0 to 100 hPa A09 0 to 500 hPa A10 0 to 1000 hPa A11 0 to 2000 hPa A23 -100 to 100 Pa A25 -10 to 10 hPa A26 -20 to 20 hPa A27 -50 to 50 hPa A28 -100 to 100 hPa

A29 -500 to 500 hPa

A30 -1000 to 1000 hPa

A31 -2000 to 2000 hPa

BXX Analog output / supply

B02 0 to 1 V (4-wire, 24 VAC/DC) B03 0 to 5 V (4-wire, 24 VAC/DC) B04 0 to 10 V (4-wire, 24 VAC/DC) B06 4 to 20 mA (4-wire, 24 VAC/DC)

C00 without display C01 with display

EXX Housing colour

E01 Housing colour light grey, incl. Testo logo (coloured)

E02 Neutral housing, white, without Testo logo

E03 Neutral housing, white, incl. Testo logo (black/white)

FXX Unit

F01 Pa/min/max F02 hPa/min/max F03 kPa/min/max F04 mbar/min/max F05 bar/min/max F06 mm H₂O / min / max

F07 inch H_{2} O / min / max F08 inch HG / min / max

F09 kg/cm²/min/max

F10 PSI / min / max

Ordering example

Order code for testo 6321 transmitter with the following options:

- Measuring range 0 to 100 Pa
- Analog output 0 to 5 V
- Without display
- Housing colour light grey
- Unit Pa

0555 6321 A03 B03 C00 E01 F01 0 100

Subject to change without notice.