

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

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	±1.2% of measuring	g range final value ±0,3 Pa
uncertainty*	Temperature gain drift: 0.05% of measuring range per Kelvin deviation from nominal temperature 22 °C	
	Zero-point drift: 0% adjustment)	(due to zero-point
Sensor	Piezoresistive sensor	
Autom. zero-point adjustment	via magnetic valve	
Overload capacity	Measuring range	Overload
	0 to 100 Pa	20000 Pa
	0 to 10 hPa	200 hPa
	0 to 20 hPa	200 hPa
	0 to 50 hPa	750 hPa
	0 to 100 hPa	750 hPa
	0 to 500 hPa 0 to 1000 hPa	2500 hPa
	0 to 2000 hPa	2500 hPa 2500 hPa
	-100 to 100 Pa	20000 Pa
	-10 to 10 hPa	20000 Pa 200 hPa
	-20 to 20 hPa	200 hPa
	-50 to 50 hPa	750 hPa
	-100 to 100 hPa	750 hPa
	-500 to 500 hPa	
	-1000 to 1000 hPa	2500 hPa

General

Housing			
Material / colour	ABS / white (RAL 9	010) or light grey	
Weight	Approx. 160 g		
Display			
Display	2-line LCD (optiona	2-line LCD (optional)	
Resolution			
Miscellaneous			
Protection class	IP65 only when the transmitter is wired and/or sealing plugs are in use		
EMC	EC guideline: 2004/108/EC		
Automatic zero-point adjustment	Every 60 seconds ex-works		

Be sure. test

Inputs and outputs

Analog outputs

Output type	0 to 1/5/10 V (4-wire) 4 to 20 mA (4-wire)	
Measuring rate	1/s	
Resolution	12 bit	
Accuracy of the analog outputs	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	
Max. load	500 Ω	
Further outputs		
other analog outputs	Mini DIN for P2A software (adjustment and parameterization software)	
Supply		
Voltage supply	20 to 30 V AC/DC	
Current consumption	300 mA	

Operating conditions

-5 to +50 °C
0 90 %RH
-5 to +50 °C
-20 to +60 °C

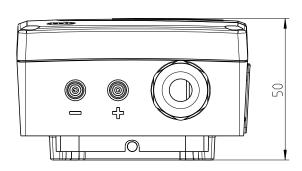
The determination of measurement uncertainty takes place according to GUM (Guide to the Expression of Uncertainty in Measurement):

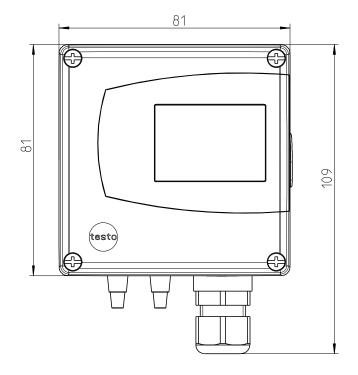
For the determination of measurement uncertainty, the accuracy of the measuring instrument (hysteresis, linearity, reproduceability), the uncertainty contribution of the test site as well as the uncertainty of the adjustment site (works calibration) are taken into account. For this purpose, the value 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%.



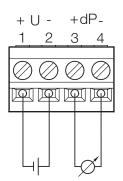
Technical drawings / Connection plan

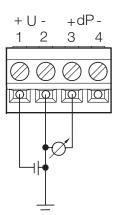
Technical drawings





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)

CXX Display

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 H_2O / min / max
- F07 inch $H_2O / min / max$
- 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

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