

# testo 6321

# **Differential pressure transmitter**



## **Technical data**

testo

Parameters			
	Differential pressure		
	Meas. range	0 to 100 Pa 0 to 10 hPa 0 to 20 hPa 0 to 50 hPa 0 to 100 hPa 0 to 500 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 -2000 to 2000 hPa
	Measurement inaccuracy*	±1.2% of measuring range final value ±0.3 Pa Temperature gain drift: 0.05% of measuring range per Kelvin deviation from nominal temperature 22 °C Zero-point drift: 0% (due to cyclic zero- point adjustment)	
	Sensor	Piezoresistive sensor	
	Autom. zero-point adjustment	via magnetic valve	
	Overload capacity	Meas. range   0 to 100 Pa   0 to 10 hPa   0 to 20 hPa   0 to 500 hPa   0 to 2000 hPa   100 to 100 Pa   -100 to 100 Pa   -100 to 100 hPa   -20 to 200 hPa   -50 to 50 hPa   -100 to 100 hPa   -500 to 500 hPa   -100 to 1000 hPa   -500 to 500 hPa   -100 to 1000 hPa   -500 to 500 hPa   -1000 to 1000 hPa   -500 to 500 hPa   -1000 to 1000 hPa	Overload 20,000 Pa 200 hPa 200 hPa 750 hPa 2500 hPa 2500 hPa 2500 hPa 200 hPa 200 hPa 200 hPa 750 hPa 2500 hPa 2500 hPa 2500 hPa 2500 hPa 2500 hPa

Housing		
Material/ colour	ABS/ pure white (RAL 9010) or light grey	
Weight	approx. 160 g	
Display		
Display	1-line LCD (optional)	
Resolution	Meas. 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 1000 hPa 0 to 2000 hPa -100 to 100 Pa -10 to 100 hPa -20 to 20 hPa -50 to 50 hPa -1000 to 100 hPa -500 to 500 hPa -1000 to 1000 hPa -500 to 500 hPa -1000 to 1000 hPa -2000 to 2000 hPa	Resolution 0.1 Pa 0.01 hPa 0.01 hPa 0.01 hPa 0.1 hPa 0.1 hPa 1 hPa 1 hPa 0.1 Pa 0.01 hPa 0.01 hPa 0.01 hPa 0.01 hPa 0.01 hPa 0.1 hPa 1 hPa 1 hPa 1 hPa 1 hPa 1 hPa 1 hPa 1 hPa 1 hPa 1 hPa
Miscellaneous		
Protection class	IP 65 only if the transmitter sealing plugs are inse	is wired and/or erted
EMC	EC Directive: 2004/1	08/EC
Automatic zero-point adjustment	Every 60 seconds in	the factory setting

Genera

### Inputs and outputs

Analog outputs		
Output type	0 to 1/5/10 V (4-wire) 4 to 20 mA (4-wire)	
Meas. cycle	1/sec	
Resolution	12 bit	
Accuracy of analog out- puts	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	
Additional 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

Hu	umidity (sensors)	0 to 90% RH
Te	mperature (sensors)	-5 to +50 °C
St	orage temperature	-40 to +80 °C

 $^{\ast}$  Measurement inaccuracy according to GUM: ±1.2% of measuring range final value ±0.3 Pa

GUM (Guide to the Expression of Uncertainty in Measurement):

ISO guideline for the determination of measurement uncertainty, in order to make measurement results comparable worldwide.

The following variables are taken into account in determining uncertainty: - Long-term stability

- Hysteresis
- Linearity - Adjustment site/works calibration
- Reproduceability - Test site

Subject to misprints and change, including technical changes.



# Differential pressure transmitter

# Technical drawings





testo 6321

## Pin assignment

4-Draht-Verdrahtung

### Verdrahtung 3-Leiter





Subject to misprints and change, including technical changes.

# Differential pressure transmitter

### The following options can be specified for the testo 6321:

AXX	Measuring range
BXX	Analog output/supply
CXX	Display
EXX	Housing colour
FXX	Unit
KXX	Language of the instruction manual (for bilingual paper instruction manu

Delivery with wall bracket

testc

## **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 mbar
- Language of instruction manual
- German/English

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

### CXX Display

- C00 Without display
- C01 With display

## 0555 6321 A03 B03 C00 E00 F04 K01

#### EXX Housing colour

E01 Housing colour light grey, with testo logo (in colour)

testo 6321

- E02 Neutral housing, pure white, without testo logo E03 Neutral housing, pure white, with testo logo
- (black-and-white)

#### FXX Unit

- F01 Pa/Min/Max
- hPa/Min/Max F02
- F03 kPa/Min/Max mbar/Min/Max
- F04
- F05 bar/Min/Max
- F06 mm H<sub>2</sub>O/Min/Max
- F07 inch H<sub>2</sub>O/Min/Max
- F08 inch HG/Min/Max
- F09 kg/cm<sup>2</sup> /Min/Max
- F10 PSI/Min/Max

#### KXX Language of the instruction manual

- K01 German/English instruction manual
- K02 French/English instruction manual
- Spanish/English instruction manual K03
- K04 Italian/English instruction manual
- K05 Dutch/English instruction manual
- K06 Japanese/English instruction manual
- K07 Chinese/English instruction manual
- K08 Swedish/English instruction manual

