

testo 6621

Humidity transmitter



SPECIFICATIONS

testo 6621

A broad variety of the testo 6621 transmitter is available. Depending on the application in a room or in a duct, the corresponding designs can be selected. A display and an external probe are available as options. You can choose between the housing colours grey and white. The testo 6621 is persuasive in technical terms thanks to the patented humidity sensors that guarantee the highest accuracy. The sensors and the analog outputs can be adjusted, analyzed and parameterized via the external interface using the P2A software.

The testo 6621 is a high-performance transmitter for a low price. It meets the increasing requirements in automated building services in terms of accuracy, reliability and safety and thereby saves energy costs.

Areas of application:

- Industrial and commercial buildings, e.g. production and storage
- Offices and administrational buildings
- Sales areas and exhibition halls
- Museums and libraries
- School buildings, hotels, clinics etc.

testo

PERFORMANCE FEATURES

testo 6621

- Highly accurate testo humidity sensor with long-term stability (±2.5% RH)
- Optional 2-line LCD display
- Time-saving commissioning and maintenance by means of external interface and testo P2A software
- Parameterizing, adjusting and analyzing software (P2A) for setting up, adjusting and analyzing the transmitter
- Optimum calibration concept by means of adjustment of the entire signal chain
- Adjustment without dismantling the transmitter
- 2 analog outputs (humidity/temperature), option of 1 passive humidity and temperature analog output



Humidity transmitter

Accuracy

Sensor

Technica	ıl data		
		testo 6621 - A01/A03 (wall version)	testo 6621 - A02 (duct ver- sion)
Parameters			
	Humidity		
	Meas. range	0 to 100% RH (> 90% RH only briefly) (not for high humidity processes)	
	Accuracy	±2.5% RH (0 to 90% RH), ±4.0% RH (> 90% RH)	
	Temperature dependen- cy/coefficient	Temperature coefficient: 0.05%/K (gap of 25 °C/77 °F) Testo humidity sensor	
	Sensor		
	Replaceability of sensor	Through Testo Service	Can be done by customer (s. below, Replacement sen- sors), subsequent 2-point adjustment requi- red
	Temperature		
	Meas. range	0 to +60 °C (+32 to +140 °F)	-20 to +70 °C (-4 to +158 °F)

±0.5 °C/0.9 °F

Active signal output: NTC Passive signal output: NI1000

outs and outputs				
Analog outputs				
Number of channels	s 2 channels (humidity and temper			
Output type	4 to 20 mA (2-wi 0 to 1/5/10 V (4-	,		
Meas. cycle	1/sec	1/sec		
Accuracy of analog out puts	t- 4 to 20 mA ±0.0 0 to 1 V ±2.5 m\ 0 to 5 V ±12.5 m 0 to 10 V ±25 m	nV		
Supply				
Voltage supply	20 to 30 V AC/D	С		
Current consumption				
Outlet	Supply voltage [\	/] Current consumption [mA]		
2-wire current	20	20		
4 to 20 mA	24	20		
	30	30		
4-wire voltage	24	7		
0 to 10 V	30	7		
	20	20		
	24	22		
	30	28		

Operating conditions			
	temperature vith/without	0 to +60 °C/32 to +140 °F (A01/A03), With display: 0 to +50 °C/+32 to +122 °F; -20 to +70 °C/-4 to +158 °F (A02), With display: 0 to +50 °C/+32 to +122 °F;	
Storage ter	mperature	-40 to +70 °C (-40 to +176 °F)	
Measuring	medium	Air in air-conditioning systems or air- conditioned rooms	

		testo 6621 - A01/A03 (wall version)	testo 6621 - A02 (duct ver- sion)	
General				
	Housing			
	Material/ colour	ABS/ pure white (RAL 9010) or light grey		
	Dimensions	81 x 81 x 26 mm	81 x 81 x 42 mm, see drawing for probe	
	Weight	80 g/90 g (A03)	160 g	
	Display			
	Display	2-line LCD (optional)		
	Resolution	Humidity: 0.1% RH Temperature: 0.1 °C/°F		
	Operation			
	Parameterization	P2A software		
	Assembly			
	Cable screw connection	None (cable routed through rear wall opening or break-out opening on bottom)	1 x M16 x 1.5	
	Miscellaneous			
	Protection class	IP 30	IP 65	
	EMC	According to EC direct	ctive 2004/108/EEC	
	Interfaces	1x mini-DIN for connecting reference measuring instrument/PC		
	Response time	t90: < 15 s at 2 m/s; When calibrating, make note of adjustment: The respons time may be considerably higher in standard air		
	Scaling range	-50 to 100 °C/-58 to -50 to 100 % RH	212 °F,	

Subject to misprints and change, including technical changes.

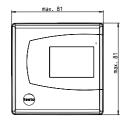


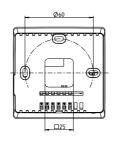


Humidity transmitter

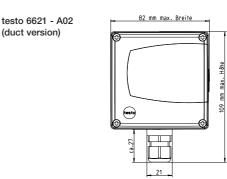
Technical drawings

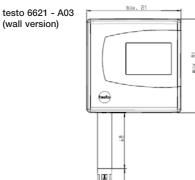


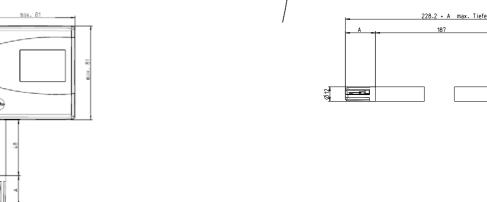






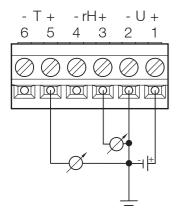


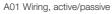


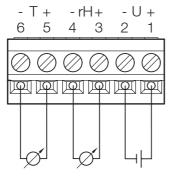


Pin assignment

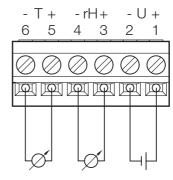
A01 Wiring, 3-wire



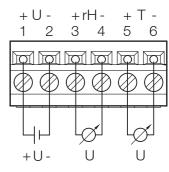




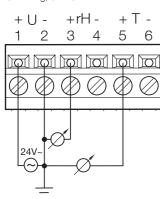




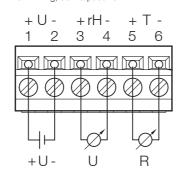
A02 Wiring



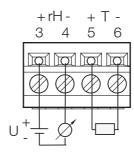
A02 Wiring, 3-wire



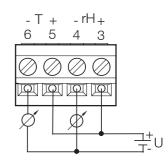
A02 Wiring, active/passive



A02 Wiring, active/passive



A03 Wiring



Subject to misprints and change, including technical changes.



Humidity transmitter

The following options can be specified for the testo 6621:

AXX	Version
BXX	Analog output/supply
CXX	Display
FXX	Humidity parameter
GXX	Temperature variable
EXX	Housing colour
MXX	Protective filter
KXX	Language of the instruction manual (for bilingual paper instruction manual)

AXX	Ver	sion

- A01 Wall version (not with B01, B05)
- A02 Duct version
- A03 Wall version with external probe for 4 to 20 mA analog output (only with B01)

BXX Analog output/supply

2 analog outputs (humidity/temperature)			
B01	4 to 20 mA (2-wire, 24 V DC)		
B02	0 to 1 V (4-wire, 24 V AC/DC)		
B03	0 to 5 V (4-wire, 24 V AC/DC)		

Humidity: Analog output, temperature: passive, Ni1000 B05 4 to 20 mA (2-wire, 24 V DC)

B06 0 to 1 V (4-wire, 24 V AC/DC) B07 0 to 5 V (4-wire, 24 V AC/DC) B08 0 to 10 V (4-wire, 24 V AC/DC)

B04 0 to 10 V (4-wire, 24 V AC/DC)

CXX Display

C00 Without display C01 With display

FXX Humidity parameter

F01 Relative humidity (% RH)

GXX Temperature variable only for B01 to B04

G02 Temperature (°C) G03 Temperature (°F)

EXX Housing colour

- E01 Housing colour light grey, with testo logo (in colour)
- E02 Neutral housing, pure white, without testo logoE03 Neutral housing, pure white, with testo logo
 - (black-and-white)

MXX Protective filter not for A01

- M01 Stainless steel sintered filter M02 Metal wire protection cap
- M03 Sintered Teflon filter
- M04 Open metal protection cap M05 ABS plastic cap (open)

KXX Language of the instruction manual (for bilingual paper instruction manual)

- 01 German/English instruction manual
- K02 French/English instruction manual
- K03 Spanish/English instruction manual
- K04 Italian/English instruction manual
- K05 Dutch/English instruction manualK06 Japanese/English instruction manual
- K07 Chinese/English instruction manual

Example:

Order code for testo 6621 transmitter with the following options:

- Duct version
- 0 to 5 V (4-wire, 24 V AC/DC)
 2 analog outputs (humidity/temperature)
- Without display
- Relative humidity parameter (% RH)
- Temperature parameter (°C)
- Neutral housing, pure white, without testo logo
- Metal wire protection cap
- Language of instruction manual German/English

0555 6621 A02 B03 C00 F01 G02 E01 M02 K01