



Committing to the future

testo 6621

The Air Conditioning Humidity Transmitter

For applications in rooms or air conditioning ducts

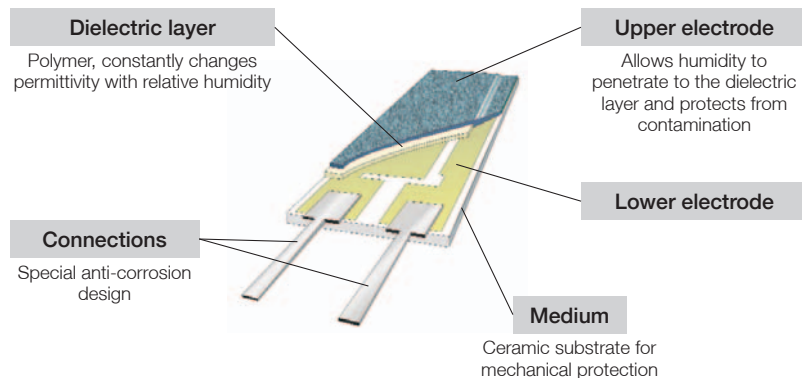
NEW!

%RH

°C/°F



testo 6621 – Long-term stable and reliable



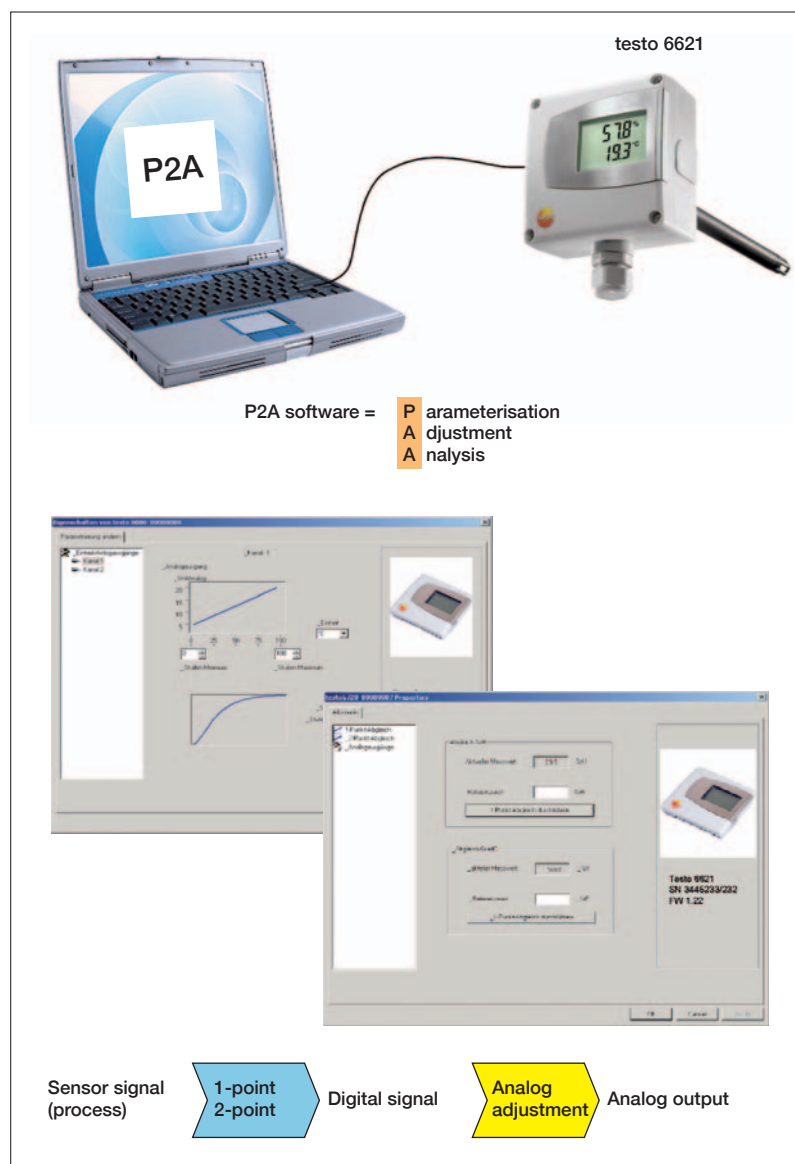
Testo's humidity sensor: long-term stable, unaffected by condensation, replaceable (duct version) and traceable to international humidity standards (ILAC / PTB / NIST etc.)

Testo humidity sensor: Now available in the "simple" VAC transmitter!

For years, Testo has been first choice when it comes to superior humidity transmitters for drying processes and critical ambient conditions.

With testo 6621, this sensor and electronics know-how is finally also being made available for classical VAC applications. With professional solutions for indoors and ventilation ducts, their design also impresses architects.

Operators, facility managers, but also plant engineers have recognised that without long-term stability, not only are unwanted ambient conditions the result. Operating costs have also been proven to increase if humidity measurement goes out of control.



Parameterising, adjustment and analysis software (P2A software): optimum operations and time saving during initial operation and maintenance

testo 6621 is ready to operate upon delivery. For professional applications, the following functions are available via the user-friendly software:

- Parameterisation of unit and scale
- Adjustment (1-point, 2-point, analog adjustment), see below
- Reset to factory setting
- Test analog outputs
- Query min./max. values
- Parameterisation and adjustment history (all P2A software procedures are recorded on PC)
- Serial number and firmware version can be called up

Regardless of whether you are at the measurement site, in your office or lab, your notebook or PC can communicate with testo 6621 through the external interface and USB adapter (included with P2A software: 0554 6020).

Entire parameter files can be saved in your PC. In this way, the parameterisation of spare transmitters or similar measurement sites is possible with minimum time spent.

World's first: Adjusting the complete signal chain

Adjustment of the complete signal chain is a world's first in this price segment. With the aid of an accurate multimeter, analog adjustment helps to make your measurement path long-term stable throughout – from the Testo humidity sensor to analog output.

testo 6621 – With external interface for adjustment and initial operation

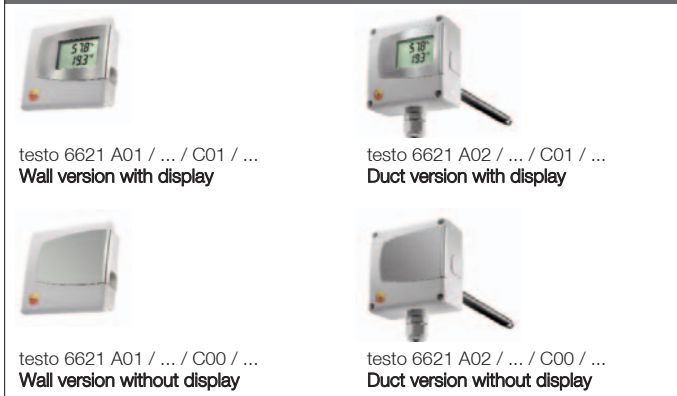


On-site adjustment: Fast and accurate using an external interface

Not only highly interesting to the company technician or facility manager, but also increasingly interesting to the plant engineer responsible: What are the follow-on costs of using this transmitter?

The good news from Testo: Thanks to the external interface, testo 650 or testo 400 reference instruments can be connected to the transmitter using the 0554 6022 adjustment adapter; all without opening the transmitter. A few steps in the testo 400 or testo 650 menu is all it takes to have the testo 6621 transmitter adjusted. Result: time saved and reduced operating costs.

Overview of Product Line



Ordering codes

0555 6621 Axx Bxx Cxx Fxx Gxx Mxx Kxx

A01 Wall version
A02 Duct version

B01 4 to 20 mA (2 wire, 24 VDC)
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)

Two analog outputs each

C00 Without display
C01 With display

F01 Relative humidity (%RH)

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






M01 Stainless steel sintered filter
M02 Metal wire protection cap
M03 Teflon sintered filter
M04 Metal protection cap, open
M05 Plastic cap ABS (open)

only for A02

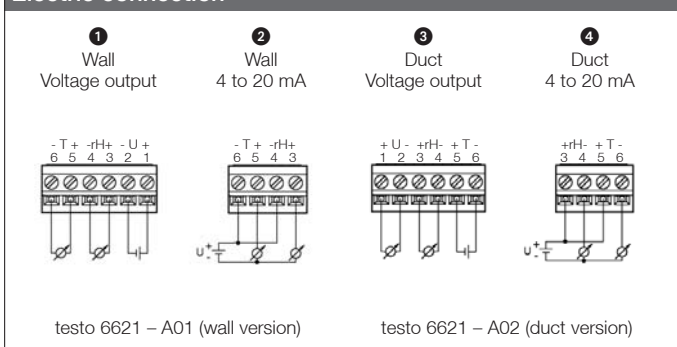
K01 IM German-English
K02 IM French-English
K03 IM Spanish-English
K04 IM Italian-English
K05 IM Dutch-English
K06 IM Japanese-English
K07 IM Chinese-English

Language versions of Instruction Manuals

Filter selection (only for duct version A02)

						
M01	M02	M03				
						
M04	M05					
			Particle load			
			Flow	without	fine	coarse
			< 7 m/s	M04/05	M03	M02
			> 7 m/s	M01	M01*	M02*
			* plus condensation protection 0554 0166			

Electric connection



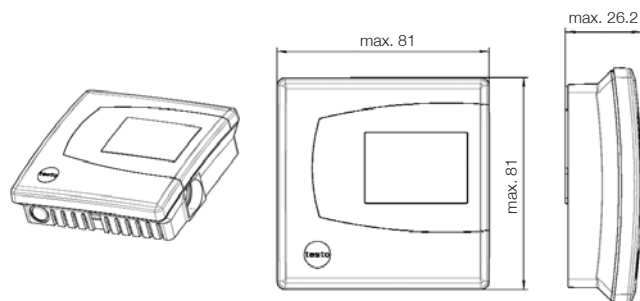
Ordering examples:

- Duct version with 0 to 10 V outputs, with display, %RH, °C, open plastic cap, German-English Instruction Manual
→ 0555 6621 / A02 / B04 / C01 / F01 / G02 / M05 / K01
- Wall version with 4 to 20 mA outputs, without display, %RH, °F, Italian-English Instruction Manual
→ 0555 6621 / A01 / B01/ C00 / F01 / G03 / K04

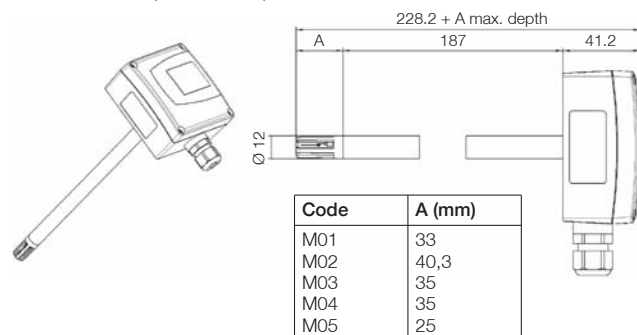
Technical data/Ordering data

Technical data		
Type	testo 6621 – A01 (wall version)	testo 6621 – A02 (duct version)
Sensor	Testo humidity sensor and NTC temperature sensor	
Output parameters	Relative humidity %RH as well as temperature °C or °F (two separate analog outputs)	
Measurement ranges (rel. humidity/temperature)	0 to 100 %RH (not for high humidity processes) 0 to +60 °C (32 to +140 °F)	0 to 100 %RH (not for high humidity processes) -20 to +70 °C (-4 to +158 °F)
Measurement medium, Pressure range	Air in air conditioning units or rooms, max. 1 bar positive pressure	
Measurement inaccuracy/Humidity	±2.5% (0 to 90 %RH), ±4% (90 to 100 %RH) Temperature coefficient: 0.05% / K (difference of 25 °C)	±2.5% (0 to 90 %RH), ±4% (90 to 100 %RH) Temperature coefficient: 0.05% / K (difference of 25 °C)
Measurement inaccuracy/Temperature	±0.5 °C / 0.9 °F	±0.5 °C / 0.9 °F
Replaceability of humidity sensor	By Testo Service Department	Can be replaced by customer (see below for spare sensor), 2-point adjustment subsequently required
Analog outputs (two channels each)	Current output: 4 to 20 mA ±0.05 mA as 2-wire version or (please order accordingly, no on-site adaptation) Voltage output: 0 to 1 VDC ±2.5 mV; 0 to 5 VDC ±12.5 mV; 0 to 10 V ±25 mV as 4-wire version	
Display, resolution and measurement rate	2 line LCD (optional) humidity resolution: 0.1 %RH, temperature resolution: 0.1 °C / 0.1 °F, measurement rate 1/s	
Power supply	At current output: 24 VDC ±10% At voltage output: 20 to 30 VDC / VAC	At current output: 24 VDC ±10% At voltage output: 20 to 30 VDC / VAC
Housing material + Dimensions	ABS, 81 x 81 x 26 mm	ABS, 81 x 81 x 42 mm, refer to diagram for probe
Temperature application range (housing)	-20 to +70 °C (-4 to +158 °F) With display: 0 to +50 °C (32 to +122 °F)	-20 to +70 °C (-4 to +158 °F) With display: 0 to +50 °C (32 to +122 °F)
Storage temperature	-40 to +80 °C (-40 to +176 °F)	-40 to +80 °C (-40 to +176 °F)
Cable screw connections	None (cable is through back wall opening or break-out opening on underside)	1 x M16 x 1.5
Weight, IP protection	80 g, IP 30	160 g, IP 65
EMC	In accordance with EU guideline 89/336/EEC	In accordance with EU guideline 89/336/EEC

testo 6621 – A01 (wall version)



testo 6621 – A02 (duct version)



Accessories Ordering data	Part no.	
P2A software (parameterisation, adjustment and analysis software for PC), with USB cable (for PC) to mini DIN (instrument)	0554 6020	
Adjustment adapter (for 1-point adjustment with testo 400 or testo 650)	0554 6022	
testo saline pots for control and humidity adjustment of humidity probes, 11.3 %RH and 75.3 %RH with adapter for humidity probe (duct version)	0554 0660	
Wall/duct holder (for mounting duct version in duct or for mounting duct version on wall)	0554 6651	
Pressure-tight screw connection G1/2" (st. steel) with Teflon ring to 6 bar	0554 1796	
Spare sensor (%RH) for testo 6621 - A02 (duct version)	0420 0006	
testo 54-2 AC process display, 2 relay outputs (to 250 VAC/300 VDC, 3 A), mains supply: 90 to 260 VAC	5400 7553	
Mains unit (desk-top) 110 to 240 VAC/24 VDC (350mA)	0554 1748	
Mains unit (rail mounting) 90 to 264 VAC/ 24 VDC (2.5A)	0554 1749	
ISO cal. cert./humidity at 11.3 %RH and 75.3 %RH	0520 0076	

- 50 YEARS OF TESTO
- More innovative than ever
- 50 innovations in the anniversary year



INNOVATION 2007