

## testo 635-1

The versatile instrument for measuring air humidity, U-value, material equilibrium moisture and pressure dewpoint in compressed air systems.

The humidity sensor, developed by Testo, has proven itself worldwide and has excellent features in terms of precision, long-term stability, temperature resistance and robustness.

Up to 3 temperature or humidity probes can be displayed wirelessly in the testo 635 measuring instrument, i.e. data is transmitted by radio. Selectable user profiles, i.e. function buttons allocated to a specified application and menu guide facilitate intuitive operation. Data is transmitted via infrared to the Testo printer.

Material moisture can be displayed directly using special probes. The heat transfer coefficient (U-value) is measured using the U-value temperature probe and a radio probe. To analyse humidity on ceilings and walls, testo 635 shows the dewpoint difference between ambient air and wall surface. Precision probes up to  $-60\text{ }^{\circ}\text{C}$  tpd are available for checking pressure dewpoint in compressed air systems.

### testo 635 Common advantages

- Connection of 3 radio probes
- Measurement of air humidity, material equilibrium moisture and pressure dewpoint in compressed air systems
- Display of dewpoint difference, min, max and mean values
- Print data on testo printer
- Backlit display
- Protection type IP 54

### testo 635-1 Advantages

Cyclic printing of readings on testo printer, e.g. once per minute

### testo 635-2 Advantages

- Instrument store for 10,000 readings
- PC software for filing and documenting measurement data
- Direct display of material moisture due to storable characteristics curves (Basis: material equilibrium moisture)
- U-value probe connection possible
- Storage of single measurements or measurement series by measurement site
- Quick access to the most important functions via user profiles

### testo 635-1

testo 635-1, humidity/temperature measuring instrument, with battery and calibration protocol

Part no. 0560 6351

### testo 635-2

testo 635-2, humidity/temperature measuring instrument with readings memory, PC software and USB data transmission cable, with battery and calibration protocol

Part no. 0563 6352



Wireless measurement of warehouse temperature and humidity, with radio handle and attachable humidity probe head

### Technical data

Probe type	Type K (NiCr-Ni)	NTC (Humidity Probes)	Testo humid. sensor, cap.	Absolute pressure probe
Meas. range	-200 to +1370 °C	-40 to +150 °C	0 to +100 %RH	0 to 2000 hPa
Accuracy ±1 digit	±0.3 °C (-60 to +60 °C) ±(0.2 °C + 0.3% of mv) (remaining range)	±0.2 °C (-25 to +74.9 °C) ±0.4 °C (-40 to -25.1 °C) ±0.4 °C (+75 to +99.9 °C) ±0.5% of mv (remaining range)		
Resolution	0.1 °C	0.1 °C	0.1 %RH	0.1 hPa
Oper. temp.	-20 to +50 °C			
Storage temp.	-30 to +70 °C			
Battery type	Alkali manganese, mignon, Type AA			
Battery life	200 h			
Weight	428 g			
Dimensions	220 x 74 x 46 mm			


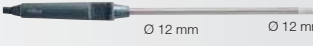


### Time for the essentials

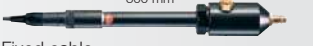
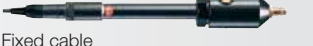
"To be quite honest, the phones are usually quiet between 6 and 7pm but the few people who do call are delighted when somebody answers the phone. That's why I'm happy to be here. Testo at your service"





Regina Walz  
Sales



## testo 635: Probes / Accessories

Humidity probes	Illustration	Meas. range	Accuracy	Part no.
Humidity/temperature probe	 Ø 12 mm	-20 to +70 °C 0 to +100 %RH	±0.3 °C ±2,5 %RH (+5 to +95 %RH)	0636 9735
Robust humidity probe for meas. up to +125 °C, short-term up to +140 °C, Ø 12 mm, e.g. exhaust ducts, and for meas. of material equilibrium moisture, e.g. bulk goods	 300 mm Ø 12 mm Ø 12 mm	0 to +100 %RH -20 to +125 °C	±2 %RH (+2 to +98 %RH) ±0.2 °C	0636 2161
Thin humidity probe with built-in electronics, incl. 4 attachable Teflon protection caps for material moisture equilibrium measurement	 60 mm Ø 4 mm	0 to +100 %RH 0 to +40 °C	±2 %RH (+2 to +98 %RH) ±0.2 °C	0636 2135
Scatter field probe for the fast and damage-free material moisture measurement, with probe cable 1.2 m.		Woods: <50 % Building materials: <20 %		0636 6160

Pressure dewpoint probes	Illustration	Meas. range	Accuracy	t99	Part no.
Pressure dewpoint probe for measurements in compressed air systems	 300 mm Fixed cable	-30 ... +50 °C tpd 0 to +100 %RH	±0.9 °C tpd (+0.1 to +50 °C tpd) ±1 °C tpd (-4.9 to 0 °C tpd) ±2 °C tpd (-9.9 to -5 °C tpd) ±3 °C tpd (-19.9 to -10 °C tpd) ±4 °C tpd (-30 to -20 °C tpd)	300 s	0636 9835
Precision pressure dewpoint probe for measurements in compressed air systems, including certificate with test point -40°C tpd	 300 mm Fixed cable	-60 to +50 °C tpd 0 to +100 %RH	±0.8 °C tpd (-4.9 to +50 °C tpd) ±1 °C tpd (-9.9 to -5 °C tpd) ±2 °C tpd (-19.9 to -10 °C tpd) ±3 °C tpd (-29.9 to -20 °C tpd) ±4 °C tpd (-40 to -30 °C tpd)	300 s	0636 9836

Absolute pressure probes	Illustration	Meas. range	Accuracy	Part no.
Absolute pressure probe 2000 hPa		0 to +2000 hPa	±5 hPa	0638 1835

Air probes	Illustration	Meas. range	Accuracy	t99	Part no.
Robust air probe, T/C Type K	 115 mm Ø 4 mm Fixed cable	-60 to +400 °C	Class 2	25 s	0602 1793

Surface probes	Illustration	Meas. range	Accuracy	t99	Part no.
Fast-action surface probe with sprung thermocouple strip, also for uneven surfaces, measurement range short-term to +500°C, TC Type K	 115 mm Ø 5 mm Ø 12 mm Conn.: Fixed cable	-60 to +300 °C	Class 2	3 s	0602 0393
Temperature probe to determine U-value, triple sensor system for measuring wall temperature, modelling clay included		-20 to +70 °C	Class 1 U-value: ±0.1 ±2% of fsv *		0614 1635

\* when used with an NTC or wireless humidity probe for measuring outside temperature and 20 K difference between the air inside and outside

Further accessories measuring instrument/probes	Part no.	Printer and Accessories	Part no.
Plug-in mains adapter, 5 VDC 500 mA with European adapter	0554 0447	Testo printer with wireless IRDA and infrared interface, 1 roll of thermal paper and 4 AA batteries	0554 0547
Handle for plug-in humidity probe head for connection to testo 635 and testo 435, probe cable included, measures/calibrates humidity probe head	0430 9735	Spare thermal paper for printer (6 rolls), permanent ink, measurement data documentation legible for up to 10 years	0554 0568
testo saline pots for control and humidity adjustment of humidity probes, 11.3 %RH and 75.3 %RH with adapter for humidity probe	0554 0660	Spare thermal paper for printer (6 rolls)	0554 0569
Teflon sintered filter, Ø 12 mm, for corrosive substances	0554 0756	External fast charger for 1-4 AA rech. batteries, incl. 4 Ni-MH rech. batteries with individual cell charging and charge control display, incl. impulse trickle charging, integrated discharge function, with built-in international mains plug, 100-240 V, 300 mA, 50/60 Hz	0554 0610
Teflon cap, Ø 5 mm, attachable, PTFE material, (5 off)	0554 1031	<b>Transport and Protection</b>	<b>Part no.</b>
Stainless steel sintered cap, Ø 12 mm, is screwed onto humidity probe	0554 0647	Service case for basic equipment of measuring instrument and probes, dimensions: 400 x 310 x 96 mm	0516 0035
Adapter for surface humidity measurement, for humidity probes Ø 12mm	0628 0012	Service case for measuring instrument, probes and accessories (505 x 435 x 125 mm)	0516 0235
Adhesive material for fixing and sealing	0554 0761	<b>Calibration Certificates</b>	<b>Part no.</b>
Cap for bore holes, for humidity probe Ø 12 mm, Measures equilibrium moisture in bore holes	0554 2140	ISO calibration certificate humidity, Calibration points 11.3 %RH and 75.3 %RH at +25°C	0520 0006
Lithium battery button cell, CR2032 AA batteries for radio handle	0515 0028	ISO calibration certificate/humidity, cal. points freely selectable from 5 to 95%RH at +15 to +35°C or at -18 to +80°C	0520 0106
		DKD calibration certificate/humidity, electronic hygrometers; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0206
		ISO calibration certificate/U-value probe	0520 0481
		DKD calibration certificate/U-value probe	0520 0981