

## Thermohygrometer, professional and safe



The right probe for every application:  
relative humidity, compensation humidity,  
pressure dewpoint, surface temperature



Probe head on radio  
handle (optional) for  
wireless data transmission



PC software for archiving  
and documenting  
measurement data  
(included in delivery) testo  
635-2



Measurement data  
printout on site on Testo  
printer



## testo 635

The testo 635 offers the possibility of monitoring and analysing air humidity, material moisture (basis: compensation moisture), and the pressure dewpoint in pressured air systems. The prerequisite for professional moisture measurement is a reliable and precise moisture sensor. The worldwide patented Testo humidity sensor guarantees accurate and long-term stable measurement results.

### Versatility through radio probes

In addition to classical probes with a wire, wireless measurement up to 20 m (without obstruction) is possible. Damage to the wire or hindrance in usage are thus eliminated. A maximum of three radio probes can be recorded and displayed with testo 635. The radio probes are available for the measurement parameters temperature and moisture. The optional, easily attachable radio module is retrofittable at any time.

### Designed for ease of use

The testo 635 excels through its logical use and easy-to-follow menus. For measurements at different locations, testo 635-2 has the advantage that the readings are allocated to the respective measurement location. Selectable user profiles, i.e. programming of the function buttons and menu adapted to the application, allow intuitive operation.

### testo 635-2 with store and software

testo 635-2 has a memory for 10,000 readings. With testo 635-2, characteristic curves for different materials can be stored using the PC software included in delivery, and transmitted to the instrument. Moisture courses can be recorded, analysed and displayed as a graph or table.

### Common advantages

- Connection of three radio probes
- Measurement of air humidity, material compensation moisture and pressure dewpoint
- Display of dewpoint, min., max. and mean values
- Backlit display

### Additional advantages 635-1

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

### Additional advantages 635-2

- Instrument store for 10,000 readings
- PC software for archiving and documenting measurement data
- Direct display of material moisture thanks to freely storable characteristic curves (Basis: material compensation moisture)
- Storage of single measurements or measurement series by location
- Fast access to the most important functions via user profiles



Cyclic printing of readings on the testo printer, e.g. once per minute (with testo 635-1)



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

Printer and Accessories	Part no.
Testo printer with wireless IRDA and infrared interface, 1 roll of thermal paper and 4 AA batteries	0554 0547
Spare thermal paper for printer (6 rolls), measurement data documentation legible for up to 10 years	0554 0568
Spare thermal paper for printer (6 rolls)	0554 0569
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
Further accessories measuring instrument/probes	Part no.
Plug-in mains adapter, 5 VDC 500 mA with European adapter	0554 0447
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
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
Teflon sintered filter, Ø 12 mm, for corrosive substances	0554 0756
Stainless steel sintered cap, Ø 12 mm, is screwed onto humidity probe	0554 0647
Adapter for surface humidity measurement, for humidity probes Ø 12mm	0628 0012
Cap for bore holes, for humidity probe Ø 12 mm, Measures equilibrium moisture in bore holes	0554 2140
Adhesive material for fixing and sealing	0554 0761
Transport and Protection	Part no.
Service case for basic equipment of measuring instrument and probes, dimensions: 400 x 310 x 96 mm	0516 0035
Service case for measuring instrument, probes and accessories, dimensions: 490 x 420 x 110 mm	0516 0135
Service case for measuring instrument, probes and accessories (505 x 435 x 125 mm)	0516 0235
Calibration Certificates	Part no.
ISO calibration certificate humidity, Calibration points 11.3 %RH and 75.3 %RH at +25°C	0520 0006
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

### testo 635-1

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

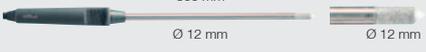
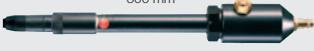
Part no. 0560 6351

### 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

## Suitable probes at a glance / Option: Radio

Humidity probes	Illustration	Meas. range	Accuracy	Part no.	
Humidity/temperature probe	 Ø 12 mm	0 to +100 %RH -20 to +70 °C	±2,5 %RH (+5 to +95 %RH) ±0.3 °C	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	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	 Ø 4 mm	0 to +100 %RH 0 to +40 °C	±2 %RH (+2 to +98 %RH) ±0.2 °C	0636 2135	
Pressure dewpoint probes	Illustration	Meas. range	Accuracy	t <sub>90</sub>	Part no.
Pressure dewpoint probe for measurements in compressed air systems	 300 mm	-30 ... +50 °C tpd 0 to +100 %RH	±0.8 °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	-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	t <sub>99</sub>	Part no.
Robust air probe, T/C Type K	 115 mm Ø 4 mm	-60 to +400 °C	Class 2	25 s	0602 1793
Surface probes	Illustration	Meas. range	Accuracy	t <sub>99</sub>	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	-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

## Radio module for upgrading measuring instrument with radio option

Country versions	Radio freq.	Part no.
Radio module for measuring instrument, 869.85 MHz, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	869.85 MHz FSK	0554 0188
Radio module for measuring instrument, 915.00 MHz FSK, approval for USA, CA, CL	915.00 MHz FSK	0554 0190

## Radio probes for immersion/penetration measurements

Radio immersion/penetration probes	Meas. range	Accuracy	Resolution	t <sub>99</sub>
Radio handle for attachable probe heads with T/C probe head for surface measurement  105 mm    30 mm Ø 5 mm    Ø 3.4 mm	-50 to +275 °C	±0.5 °C (-20 to +80 °C) ±0.8 °C (-50 to -20.1 °C) ±0.8 °C (+80.1 to +200 °C) ±1.5 °C (remaining range)	0.1 °C	t <sub>99</sub> (in water) 12 s
Country versions	Radio freq.	Part no.		
Radio immersion/penetration probe, NTC, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	869.85 MHz FSK	0613 1001		
Radio immersion/penetration probe, NTC, approval for USA, CA, CL	915.00 MHz FSK	0613 1002		

## Assembled for you: Radio handles with probe head

Radio handles with probe head for air-/ immersion-penetration-meas.	Meas. range	Accuracy	Resolution	t <sub>99</sub>
Radio handle for attachable probe heads with T/C probe head for air and immersion/penetration measurement  100 mm    30 mm Ø 5 mm    Ø 3.4 mm	-50 to +350 °C Short-term to +500 °C	Radio handle: ±(0.5 °C +0.3% of mv) (-40 to +500 °C) ±(0.7 °C +0.5% of mv) (remaining range) T/C probe head: Class 2	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)	t <sub>99</sub> (in water) 10 s
Country versions	Radio freq.	Part no.		
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	869.85 MHz FSK	0554 0189		
T/C probe head for air/immersion/penetration measurement, attachable to radio handle, T/C Type K		0602 0293		
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL	915.00 MHz FSK	0554 0191		
T/C probe head for air/immersion/penetration measurement, attachable to radio handle, T/C Type K		0602 0293		

## Option: Radio / Technical data

### Assembled for you: Radio handles with probe head

Radio handles with probe head for surface measurement	Meas. range	Accuracy	Resolution	t <sub>99</sub>
<b>Radio handle for attachable probe heads with T/C probe head for surface measurement</b> 	-50 to +350 °C Short-term to +500 °C	Radio handle: ±(0.5 °C +0.3% of mv) (-40 to +500 °C) ±(0.7 °C +0.5% of mv) (remaining range) T/C probe head: Class 2	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)	5 s

Country versions	Radio freq.	Part no.
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO T/C probe head for surface measurement, attachable to radio handle, T/C Type K	869.85 MHz FSK	0554 0189 0602 0394
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL T/C probe head for surface measurement, attachable to radio handle, T/C Type K	915.00 MHz FSK	0554 0191 0602 0394

Radio probes incl. humidity probe head	Meas. range	Accuracy	Resolution
<b>Radio handle for attachable probe heads with humidity probe head</b> 	0 to +100 %RH -20 to +70 °C	±2 %RH (+2 to +98 %RH) ±0.3 °C	0.1 %RH 0.1 °C

Country versions	Radio freq.	Part no.
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO Humidity probe head, attachable to radio handle	869.85 MHz FSK	0554 0189 0636 9736
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL Humidity probe head, attachable to radio handle	915.00 MHz FSK	0554 0191 0636 9736

### Radio handles, separate

Radio handles for attachable T/C probes	Meas. range	Accuracy	Resolution
<b>Radio handle for attachable probe heads incl. adapter for attaching T/C probes (Type K)</b> 	-50 to +1000 °C	±(0.7 °C +0.3% of mv) (-40 to +900 °C) ±(0.9 °C +0.5% of mv) (remaining range)	0.1 °C (-50 to +199.9 °C) 1.0 °C (remaining range)

Country versions	Radio freq.	Part no.
Radio handle for plug-in probe heads, incl. T/C adapter, approval for the countries: DE, FR, UK, BE, NL, ES, IT, SE, AT, DK, FI, HU, CZ, PL, GR, CH, PT, SI, MT, CY, SK, LU, EE, LT, IE, LV, NO	869.85 MHz FSK	0554 0189
Radio handle for plug-in probe heads, incl. T/C adapter, approval for USA, CA, CL	915.00 MHz FSK	0554 0191

### Radio probes: General technical data

	Radio immersion/penetration probe, NTC	Radio handle	Measuring rate	Radio coverage	Radio transmission	Unidirectional
Battery type	2 x 3V button cell (CR 2032)	2 AAA micro batteries	0.5 s or 10 s, adjustable on handle	Up to 20 m (without obstructions)	Oper. temp.	-20 to +50 °C
Battery life	150 h (meas. rate 0.5 s) 2 months (meas. rate 10 s)	215 h (meas. rate 0.5 s) 6 months (meas. rate 10 s)	Radio coverage	Storage temp.	Storage temp.	-40 to +70 °C
				Protection class	Protection class	IP54

### Technical data

Probe type	Type K (NiCr-Ni)	NTC (humidity probe)	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			