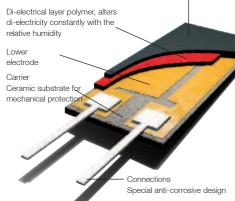


testo 635

The New Measurement Technology for NEW! **Humidity** Security through precision - versatility through data transmission by radio %RH °C °C td hPa

Upper electrode allows moisture to penetrate through to the dielectrical layer and is condensate and dirt-proof



Reliable long-term humidity measurement

The prerequisite for professional humidity measurement is a reliable and precise humidity probe. The internationally patented Testo

humidity probe guarantees accurate and reliable long-term measurement results. The excellent long-term reliability of the probe has been proven in many endurance tests under extreme conditions and in an international interlaboratory test. This means considerably more security for the user. Adherence to defined humidity values is a deciding factors in many work, production and storage areas.

The new testo 635 provides the possibility of monitoring and analysing air humidity, material moisture (basis: equilibrium moisture) and the pressure dew-point.

Three precision probes were tested in an extensive interlaboratory test at the PTB in Berlin, the NIST in the USA, the French National InstituteCETIAT, the Italian National Institute IMGC, the English National Institute NPL, the Spanish National Institute INTA, JQA in Japan, KRISS in Korea, NRCCM in Peking and Testo DKD calibrating laborarory. The test results confirmed the accuracy given by Testo of ± 1 %RH.



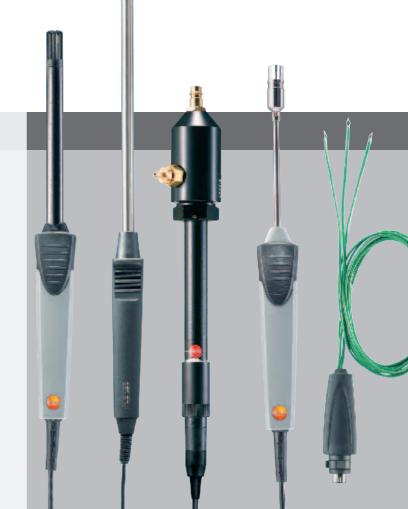
The right probe for every application

The channel and room air temperature range of -20...+70 °C is monitored with a compact humidity probe. In addition to the relative humidity, air temperature and dew-point are also displayed.

Moisture on ceilings and walls can be the result of damage to the building or insufficient ventilation. With the help of testo 635, the difference between the wall surface temperature and the ascertained dew-point temperature of the room can be calculated. The wall surface temperature is measured using the patented cross-band probe. This shows the actual temperature of the object to be measured in a few seconds and also adapts excellently to rough surfaces.

Building moisture as well as material moisture can be displayed by testo 635 on the basis of equilibrium moisture. In the instrument 10 material characteristics curves are available for this. The robust humidity probe is available for measuring equilibrium moisture at higher temperatures up to +140 °C.

The pressure dew-point probe was developed specially for controlling and monitoring humidity in pressurized air up to - 60 °C tpd. The pressure dew-point is displayed directly in the pressurized air system with the pressure dew-point probe.



Versatility through radio probes

In addition to classical probes, wireless measurement is possible up to a distance of 20m. Damage to the wire or hindrances in handling are therefore eliminated. A maximum of three radio probes can be read and displayed by testo 635. The probes are for the measurement parameters temperature and humidity. The optional, easily attachable radio module can be refitted at any time.

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user comfort

The testo 635 excels through its logical usage and easy-to-follow menus. When making measurements at different locations, testo 635-2 offers the advantage that measurement values are allocated to the respective measurement location.

For long-term measurements and material moisture measurements, it is possible to switch between different user profiles.

User profile long-term measurement:

The profile "Standard" provides direct acces to the definition of the measurement program, such as number of measurements and measurement rate.

User profile material humidity measurement:

The characteristics curves for different materials can be selected directly via the function buttons. There are 10 material humidity characteristics curves set in the instrument's store. Any number of characteristics curves can be defined by 10 freely selectable points via the PC software. The basis of measurement is the equilibrium moisture. Each equilibrium moisture value is allocated to a material moisture value.

Absolutely robust instrument concept

The reliability of measuring instruments is a deciding factor. The testo 635 is a robust and reliable measuring instrument with the protection class IP 54. The material used works as a builtin protection against knocks and jars. The large illuminated display is positioned slightly set back in the housing and is thus better protected. The carrying strap on the instrument enables safe transport. Magnets on the back ensure secure attachment at the measuring location.



Security through documentation

With the testo 635, measurement results can be documented on the PC via the convenient ComSoft or on location using the handy testo report printer.

Single measurements as well as measurement series are stored in the measuring instrument (10,000 measurement values) and then displayed in tabular or graphic form via ComSoft.

On location the testo 635 transmits the data to the testo report printer wirelessly by infra-red interface. Date and time are documented on the print-out as well as the measurement data.

With the testo 635-1, measurement data can be printed out on the testo report printer cyclicly with a measurement rate from 1 minute to 24 hours via the function "Cycle printing". In this way, with the testo 635-1, measurement series can be documented even without a data store.

testo 635-1 Advantages

testo 635-2 Advantages

testo 635 Joint advantages



testo 635-1

Part no. 0560 6351



Probes

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 %RH (+2 to +98 %RH)		0636 9735
Robust humidity probe for measurements up to +140°C in e.g. exhaust ducts and for measuring equilibrium moisture in e.g. bulk material	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 (-10 to +50 °C) ±0.5 °C (remaining range)		0636 2161
Thin humidity probe with built-in electronics, ncl. 4 attachable Teflon protection caps for naterial equilibrium humidity measurement	Ø 4 mm	0 to +100 %RH -20 to +70 °C	±2 %RH (+2 to +98 %RH) ±0.2 °C (-10 to +50 °C) ±0.5 °C (remaining range)		0636 2135
Pressure dewpoint probes	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Pressure dewpoint probe for measurements n compressed air systems	300 mm	-30 to +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 t ₉₉	8 0636 9835
Precision pressure dewpoint probe for measurements in compressed air systems, ncluding certificate with test point -40°C tpd	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	8 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 ₉₉	Part no.
Robust air probe, T/C Type K	Fixed cable	-60 to +400 °C	Class 2	25 s	0602 1793
Surface probes	Illustration	Meas. range	Accuracy	t ₉₉	Part no.
Fast-action surface probe with sprung hermocouple strip, also for uneven surfaces, measurement range short-term to +500°C, T/C Type K	115 mm 0 5 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	-0-	-20 to +70 °C	Class 1		0614 1635

Technical data

Probe type	NTC	Testo humid. sensor,	Type K (NiCr-Ni)	Oper. temp.	-20 to +50 °C	Dimensions	182 x 64 x 40 mm
		cap.		Storage temp.	-40 to +85 °C	Weight	195 g
Meas. range	-10 to +60 °C	0 to +100 %RH	-200 to +1370 °C	Battery type	Alkali manganese	Material/Housing	ABS
Resolution	±0.5 °C	±2.5 %RH (+5 to +95 %RH)		Battery life	70 h (without radio operation)	Warranty	2 years
Accuracy ±1 digit	0.1 °C	0.1 %RH	0.1 °C		operation		

Option: Radio

	dule for upgrading meas	uring instrument wit	n radio option			
Country versions	3				Radio freq.	Part no.
Radio module for	measuring instrument, 869.85 MHz, ap	proval for the countries: DE, NL, I	ES, IT, SE, AT, DK, FI, HU	J, CZ, PL, GR	869.85 MHz FSK	0554 0188
Radio module fo	r measuring instrument 869.35 MHz	ASK, approval for the countries	: FR, GB, BE		869.35 MHz ASK	0554 0192
Radio module fo	r measuring instrument, 915.00 MHz	FSK, approval for USA			915.00 MHz FSK	0554 0190
Assemble	d for you: Radio handles	with probe head				
Radio handles	with probe head for surface meas	urement	Meas. range	Accuracy		Resolution t ₉₉
	or attachable probe probe head for surface	120 mm Ø 5 mm Ø 1 mm	Short-term to +500 °C		of mv) (-40 to +500 °C) of mv) (remaining range) Class 2	0.1 °C (-50 to 5 s +199.9 °C) 1.0 °C (remaining range)
Country versions	3				Radio freq.	Part no.
Radio handle for CZ, PL, GR	plug-in probe heads, incl. T/C adapted	er, approval for the countries: D	E, NL, ES, IT, SE, AT, E	DK, FI, HU,	869.85 MHz FSK	0554 0189
T/C probe head	for surface measurement, attachable	to radio handle, T/C Type K				0602 0394
	plug-in probe heads, incl. T/C adapt for surface measurement, attachable		R, GB, BE		869.35 MHz ASK	0554 0193 0602 0394
	plug-in probe heads, incl. T/C adapt for surface measurement, attachable				915.00 MHz FSK	0554 0191 0602 0394
Radio probes i	ncl. humidity probe head		Meas. range	Accuracy		Resolution
	or attachable probe nidity probe head		0 to +100 %RH -20 to +70 °C	±2 %RH (+2 to + ±0.5 °C	98 %RH)	0.1 %RH 0.1 ℃
Country versions	3				Radio freq.	Part no.
Radio handle for CZ, PL, GR	plug-in probe heads, incl. T/C adapted	er approval for the countries. D				05540400
02, 1 L, 011			E, NL, ES, 11, SE, A1, L	JK, FI, HU,	869.85 MHz FSK	0554 0189
	nead, attachable to radio handle		E, NL, ES, II, SE, AI, L	JK, FI, HU,	869.85 MHZ FSK	0554 0189 0636 9736
Humidity probe I Radio handle for	nead, attachable to radio handle plug-in probe heads, incl. T/C adapt nead, attachable to radio handle			JK, H, HU,	869.35 MHz FSK	
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Humidity probe I Radio handle for Humidity probe I Radio handle for Humidity probe I	plug-in probe heads, incl. T/C adapt head, attachable to radio handle plug-in probe heads, incl. T/C adapt head, attachable to radio handle	er, approval for the countries: F		ук, н, н∪,	869.35 MHz ASK	0636 9736 0554 0193 0636 9736 0554 0191
Humidity probe I Radio handle for Humidity probe I Radio handle for Humidity probe I Radio han	plug-in probe heads, incl. T/C adapt nead, attachable to radio handle plug-in probe heads, incl. T/C adapt	er, approval for the countries: F		ж, н, но,	869.35 MHz ASK	0636 9736 0554 0193 0636 9736 0554 0191
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Humidity probe I Radio handle for Humidity probe I Radio handle for Humidity probe I Radio handles Radio handles Radio handle fo incl. adapter for (Type K)	plug-in probe heads, incl. T/C adapt head, attachable to radio handle plug-in probe heads, incl. T/C adapt head, attachable to radio handle dles, seperate for attachable T/C probes or attachable probe heads r attaching T/C probes	er, approval for the countries: F	R, GB, BE Meas. range	Accuracy ±(0.7 °C +0.3% c	869.35 MHz ASK 915.00 MHz FSK	0636 9736 0554 0193 0636 9736 0554 0191 0636 9736 Resolution 0.1 °C (-50 to +199.9 °C
Humidity probe I Radio handle for Humidity probe I Radio handle for Humidity probe I Radio handles Radio handles Radio handle fo incl. adapter for (Type K) Country versions	plug-in probe heads, incl. T/C adapt head, attachable to radio handle plug-in probe heads, incl. T/C adapt head, attachable to radio handle dles, seperate for attachable T/C probes or attachable probe heads r attaching T/C probes	er, approval for the countries: F er, approval for USA	R, GB, BE Meas. range -50 to +1000 °C	Accuracy ±(0.7 °C +0.3% c ±(0.9 °C +0.5% c	869.35 MHz ASK 915.00 MHz FSK of mv) (-40 to +900 °C) of mv) (remaining range)	0636 9736 0554 0193 0636 9736 0554 0191 0636 9736 Resolution 0.1 °C (-50 to +199.9 °C 1.0 °C (remaining range
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Ordering data

Measuring instrument	Part no.
testo 635-1, humidity/temperature measuring instrument, with battery and calibration protocol	0560 6351
testo 635-2, humidity/temperature measuring instrument with readings memory, PC software and USB data transmission cable, with battery and calibration protocol	0563 6352

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Α	Accessories for measuring instrument	Part no.
W	ixternal recharger incl. 4 Ni-MH rechargeable batteries vith built-in, international mains adapter - 100-240 V, 300 nA, 50/60 Hz, 12 VA/instrument	0554 0610
	lug-in mains adapter for testo 735, testo 635, testo 435, VDC 500 mA with European adapter	0554 0447

Printer and Accessories	Part no.
Testo printer with wireless IRDA and infrared interface, 1 roll of thermal paper and 4 round cell batteries	0554 0547
Spare thermal paper for printer (6 rolls) Measurement data documentation legible for up to 10 years	0554 0568

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

Additional accessories	Part no.
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
Control and humidity adjustment set 11.3%RH/75.3%RH incl. adapter for humidity probes	0554 0660
Teflon sintered filter, Ø 12 mm, for corrosive substances High humidity range (long-term measurements), high velocities	0554 0756
Stainless steel sintered cap, Ø 12 mm, is screwed onto humidity probe; For measurements at high velocity speeds or in dirt ingressed air	0554 0647
Adapter for surface humidity measurement, for humidity probes Ø 12mm; Locates damp spots on walls, for example	0628 0012

Calibration Certificates	Part no.
ISO calibration certificate/Temperature, Thermometers with surface probe; calibration points +60°C; +120°C; +180°C	0520 0071
ISO calibration certificate/Humidity, Electronic hygrometers; calibration points 11.3%RH and 75.3%RH at +25°C	0520 0006
ISO calibration certificate/Pressure dew point Two adjustment points -10/-40 °C tpd	0520 0136
ISO calibration certificate pressure Absolute pressure; accuracy 0,10,6; 3 measuring points distributed over meas. range (070 bar)	0520 0185

Wireless measurement of warehouse conditions

With the radio probe, air humidity and temperature are measured wirelessly, e.g. for the storage of sensitive products.

