testo Be sure.

Huminator II – Precision Humidity Generator

Calibration equipment

Testo Industrial Services – More assurance, better service.

All advantages at a glance

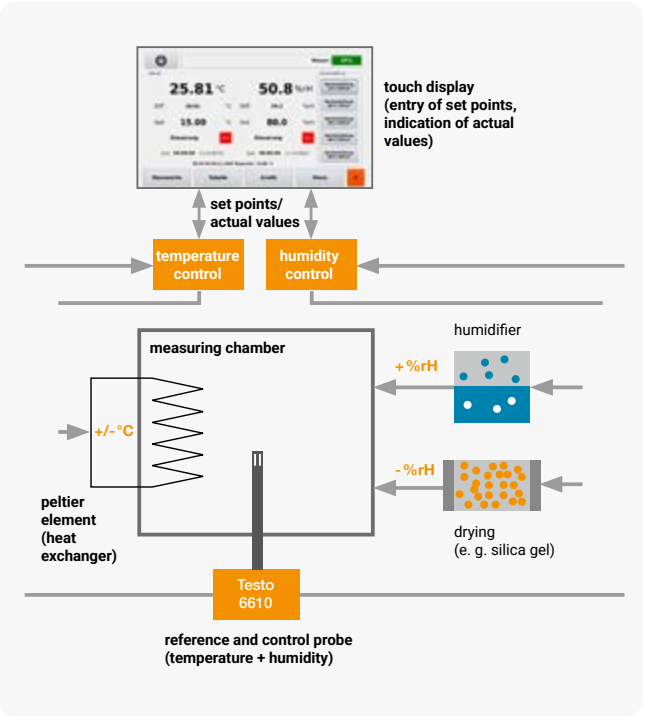
- Wide temperature and humidity range from 5 °C to 50 °C and from 5 %RH to 95 %RH
- New touch display enables a fast and intuitive operation
- Graphical and tabular view as well as storage and evaluation of measured values
- Integrated, easily accessible and replaceable reference sensor, that eliminates the need for an external reference system
- Possibility to program measuring points and procedures individually

Easy operation, fast regulation, good stability and homogeneity

- Fast stabilisation time (e.g. 3 min from 35 %RH to 80 %RH at 25 °C)
- Highest measuring stability due to optimal insulation of the chamber and high-end sealing adapter plate
- Large measuring chamber (Ø 160 mm, depth 320 mm)
- No condensation inside the measuring chamber through a regulation along the dew point
- Guaranteed mobility – the compact size and the minimal weight ensure an extremely flexible use of the Huminator II.

Precise humidity calibrations

The Huminator II offers the possibility to perform a rapid and easy humidity calibration of measuring instruments, sensors and data loggers of all manufacturers. The supplied adapter plate enables a calibration of up to five sensors at a time – without deterioration of the homogeneity. Thus, a high level of efficiency is guaranteed.
The timely programming function allows a large degree of automation of calibrations since up to 10 humidity and temperature values can be retrieved automatically one after another. The stabilization time can be selected freely. With the help of a Peltier- element, the integrated temperature regulation generates and stabilizes temperatures in a range from 5 °C to 50 °C. Relative humidity can rapidly be produced in a range from 5 %RH to 95 %RH by a high performance humidification system.



Concept of the removable sensor

The Huminator II is equipped with a reference probe which is integrated into the measuring chamber but which is nevertheless easily accessible. It can be exchanged without any problems or removed for recalibration.

Your advantages:

- No need for an additional reference measuring instrument
- Only the reference sensor has to be sent in for recalibration.
- Downtimes due to the recalibration can be avoided through the optional purchase of a second reference sensor.

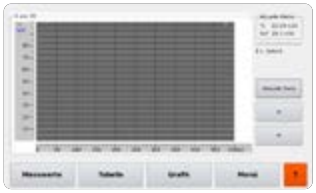
Easy to use via the touch display

Due to the touch display, the measuring values are comfortable to control. The clear menu structure enables an intuitive and simple handling. Help texts are additionally at your disposal. With the touch display, the Huminator II can be programmed in a few steps. If required, this process can also be conducted via the USB interface.

Furthermore, an acoustic signal helps the user to control the stability and the filling level indicator of the water.

Menu overview

Tabular view



Chart

Settings

Large measuring chamber

The large and extremely solid measuring chamber provides enough space for up to five sensors or several data loggers at the same time. An optimal insulation of the chamber in conjunction with a special sealing adapter plate ensure the stability of the measuring values in a wide range of temperature and humidity.

Stationary use in the calibration lab

The Huminator II is designed to carry out fast and precise humidity calibrations. In laboratory use, where fast processing times and continuous operation are of crucial importance, the Huminator is characterized by its outstanding performance and its reliability.

On-site use

The intelligent use of materials enables a total weight of only 19 kg. This makes the Huminator II mobile and flexible to use. The water can be drained automatically with the help of a display command. From this it follows, that the Huminator II is quickly ready for transportation. The optimal protection is given by an optionally available transport trolley, promising excellent handling during the on-site use.

Maintenance & Service

- Besides a power supply, no further external connection is required.
- Directly accessible help texts are at your disposal on the touch screen. In addition, an electronic instruction manual is provided.

- The integrated reference enables a fast recalibration. Furthermore you benefit from a significant cost reduction by saving the external reference.
- Due to the service access on the upper side of the housing, the drying cartridge can easily be replaced at any time.
- You only need distilled water for the Huminators operation, no further operating materials are necessary.

Order information

Huminator II		0519.0900
Accessory	Transport trolley	0519.0899
	DAkkS-Calibration	On request
	2. Reference	0555.6610
Price on request	Testo industrial services GmbH Gewerbestraße 3 79199 Kirchzarten www.testotis.de info@testotis.de	

Transport trolley

Flexible, precise, mobile

Technical Data

Specifications		
Measuring and control range	5 to 50 °C	5 to 95 %rH
Stability	± 0.02 °C (at 25 °C; 50 %RH)	± 0,3 %RH (10 to 80 %RH at 10 to 40 °C) ± 0,5 %RH (rem. measuring range)
Probe accuracy at 25 °C	± 0.15 °C (0.27 °F) with PT1000 Class AA	± (1,0 %RH + 0,007 x meas. value) for 0 to 90 %RH
Homogeneity	± 0,2 °C	± 0,5 %rH
Stabilization time	3 min (from 35 to 80 %RH at 25 °C)	
Ambient conditions	20 ± 5 °C	
Typical total measuring uncertainty of the calibration (k=2)	± 0.2 °C (10 to 85 %RH at 25 °C) ± 0.5 °C (rem. measuring range)	± 1.5 %RH (10 to 85 %RH at 25 °C) ± 2.0 %RH (rem. measuring range)

General data	
Display	Touchscreen
Number of probe slots	5
Interfaces	USB, LAN
Power consumption (typical)	30W to 250 W, max: 500 W
AC input voltage/frequency	110 to 230 V ±10% 50/60 Hz
Tank volume	Tank with a capacity of 200 ml
Water level indicator	Completely automatically with graphic display
Display of measuring data	In graphic and tabular form
Control	Manually or automatically programmable
Stabilization signal	visually and acoustically
Dimensions (DxWxH)	451 mm x 448 mm x 266 mm 482 mm x 448 mm x 290 mm (incl. attachments)
Size of the measuring chamber	Diameter: 160 mm Depth: 320 mm
Volume of the measuring chamber	appr. 4.2 liters (inlet: 154 mm, depth to cooling element: 230 mm)
Weight	19 kg

Scope of delivery	
Drying cartridge	Dry granulates with a change of color depending on the humidity content
Operating material	Plugs for probes (15 pieces) Power cord ISO calibration certificate
Other certifications	CE Approval BGV A3 approved

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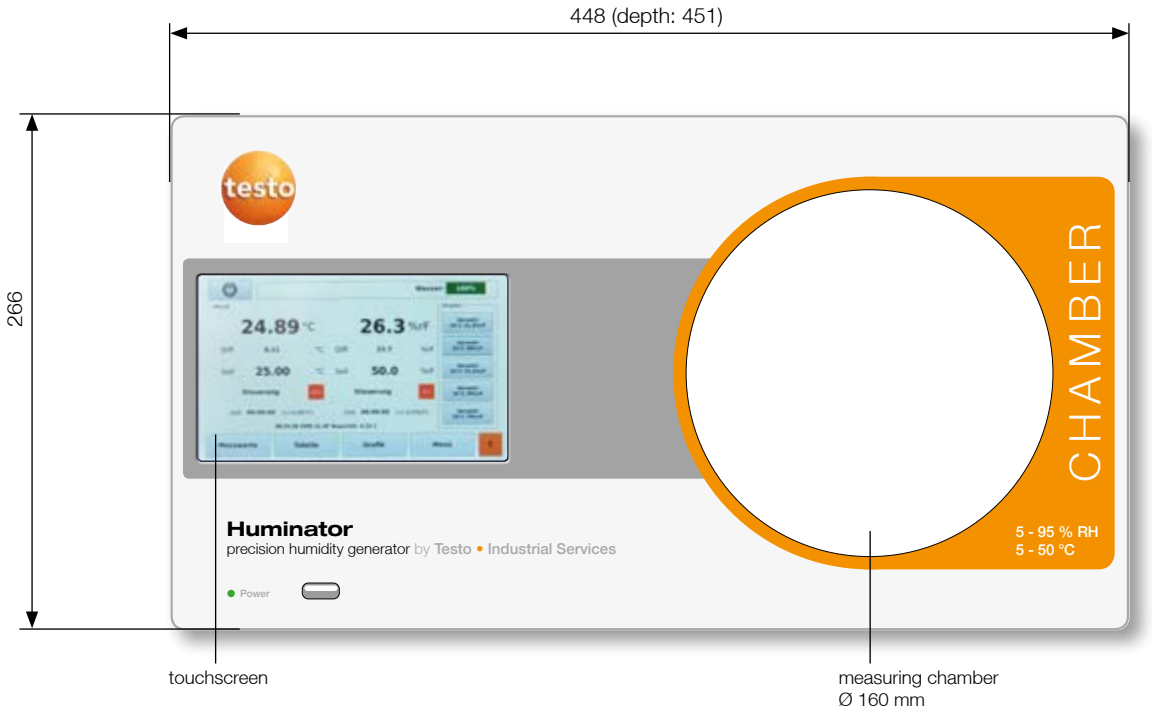

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