



MEASURING DEVICES

PRODUCT CATALOGUE

ENGLISH Version 05/2019

merlin[®]

SUPERIOR HUMIDIFICATION **TECHNOLOGIES**



MAKE YOUR
BUSINESS
SMILE!

All pictures are schematic and need not to comply with reality!

All products comply with the following EU-standards:

EU-Standards: 2002 / 95 / EC – RoHS, Restriction of Hazardous Substances

EU-Standards: 2002 / 96 / EC – WEEE, Waste Electrical and Electronic Equipment

Only our general terms and conditions are acceptable.

Subject to technical change without notice. Errors excepted.

Version May 2019 ©

CONTENT

WOOD MOISTURE METERS	7
HM9 WS Series	7
EVO WW	12
EVO SM	13
ACCESSORIES	14
for wood moisture meters	14
BUILDING MOISTURE METERS	15
EVO CC	15
COMBINED MOISTURE METERS	16
MOISTEC PRO	16
EVO FC	17
EVO AC	19
ACCESSORIES	21
for EVO FC and EVO AC	21
PAPER MOISTURE METERS	26
HM8 PMC2	26
HM8 RLF/TS	26
ACCESSORIES	27
for paper moisture meters	27
TEMPERATURE AND HUMIDITY METERS	28
HM8 RLF/T	28
TH-C	28
Data Logger RECORD 3	29
ACCESSORIES	30
for data logger RECORD 3	30
BIOMASS MOISTURE METERS	31
EVO BIO	31
EVO CHIPS	32
MOISTEC BIO	33



Measuring devices

Made in Austria

merlin[®] – a measurable advantage

Moisture is everywhere. In the air, and in materials such as wooden beams, parquet, veneers, plaster, paper or cardboard and, of course, in food. A certain degree of moisture is highly desirable here. But special hygroscopic materials change their form and their properties when the ambient air is too dry. These undesirable consequences can become very expensive.

merlin[®] has specialized in humidity measuring technology since 1996. Our portable measuring devices enjoy an outstanding reputation and are exported to more than 70 countries.

Your benefits



- ✓ Fast, precise results
- ✓ Non-destructive measurement of material moisture
- ✓ Individual, simple characteristic selection
- ✓ Convenient small format
- ✓ Large digital display
- ✓ Automatic switch off
- ✓ Automatic regulation of ambient and material temperature
- ✓ Battery operation
- ✓ Data recording (selected devices)
- ✓ Various accessories available

HM9 WS

Non-destructive wood moisture meter

With different scanning depths for various fields of application



Available in 4 different scanning depths



21 timber groups programmed



Easy handling



Backlit display



Non-destructive capacitive measurement possible



Immediate measurement display



Made in Austria – Ergonomic and high quality manufactured

WOOD MOISTURE METERS

HM9 WS Series

Wood moisture meter HM9 DUO for parquet flooring & cutting

NEW!

Combined device from HM9 WS5 and HM9 WS25

with sensors on the front and underside

Non-destructive measurement

21 timber groups programmed

Display of wood moisture, dry density, timber group and minimum wood thickness

Automatic temperature compensation

Also suitable for chipboard

Self-calibration function

Display lighting

Automatic switch off

Battery control

8 menu languages

Incl. softcase, hand strap and 4 pcs. 1.5 V AA batteries

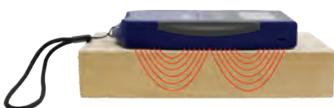


HM9 DUO



TECHNICAL DATA

Density range	0.175 – 1.075 g/cm ³ dry density
Scanning depth	Front: 8 mm (5 mm min. thickness) Underside: 40 mm (25 mm min. thickness)
Menu languages	English, German, French, Spanish, Portuguese, Czech, Russian, Italian
Weight	215 g
Size (L x W x H)	150 x 73 x 23 mm
Measuring range	2 – 99 %
Operating temperature	0 – +40 °C
Storage temperature	-20 – +60 °C



As soon as the sensor plate is in contact with the surface of the wood measuring starts. The processor of the instrument analyses the sensor readings and displays the result as a percentage of moisture content in the wood.

WOOD MOISTURE METERS

HM9 WS Series

Wood Moisture Meter HM9 WS1 for veneer

NEW!

Non-destructive measurement

Preselection of wood thickness: select between six different scanning depths (from 0.5 to 3 mm) – for an even more accurate measurement for low wood thickness

21 timber groups programmed

Display of wood moisture, dry density, timber group and minimum wood thickness

Automatic temperature compensation

Self-calibration function

Display lighting

Automatic switch off

Battery control

8 menu languages

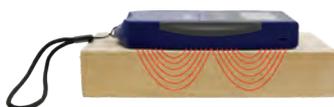
Incl. softcase, hand strap and 4 pcs. 1.5 V AA batteries



HM9 WS1

TECHNICAL DATA

Density range	0.175 – 1.075 g/cm ³ dry density
Scanning depth	0.5 – 3 mm (0.5 mm min. thickness)
Menu languages	English, German, French, Spanish, Portuguese, Czech, Russian, Italian
Weight	215 g
Size (L x W x H)	150 x 73 x 23 mm
Measuring range	2 – 30 %
Operating temperature	0 – +40 °C
Storage temperature	-20 – +60 °C



As soon as the sensor plate is in contact with the surface of the wood measuring starts. The processor of the instrument analyses the sensor readings and displays the result as a percentage of moisture content in the wood.

WOOD MOISTURE METERS

HM9 WS Series

Wood Moisture Meter HM9 WS5 for parquet flooring

NEW!

Non-destructive measurement

21 timber groups programmed

Display of wood moisture, dry density, timber group and minimum wood thickness

Automatic temperature compensation

Also suitable for chipboard

Self-calibration function

Display lighting

Automatic switch off

Battery control

8 menu languages

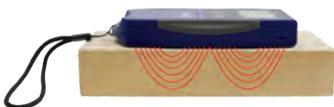
Incl. softcase, hand strap and 4 pcs. 1.5 V AA batteries



HM9 WS5

TECHNICAL DATA

Density range	0.175 – 1.075 g/cm ³ dry density
Scanning depth	8 mm (5 mm min. thickness)
Menu languages	English, German, French, Spanish, Portuguese, Czech, Russian, Italian
Weight	215 g
Size (L x W x H)	150 x 73 x 23 mm
Measuring range	2 – 99 %
Operating temperature	0 – +40 °C
Storage temperature	-20 – +60 °C



As soon as the sensor plate is in contact with the surface of the wood measuring starts. The processor of the instrument analyses the sensor readings and displays the result as a percentage of moisture content in the wood.

WOOD MOISTURE METERS

HM9 WS Series

Wood Moisture Meter HM9 WS13 for furniture

NEW!

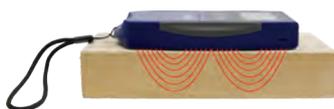
Non-destructive measurement
21 timber groups programmed
Display of wood moisture, dry density, timber group and minimum wood thickness
Automatic temperature compensation
Also suitable for chipboard
Self-calibration function
Display lighting
Automatic switch off
Battery control
8 menu languages
Incl. softcase, hand strap and 4 pcs. 1.5 V AA batteries



HM9 WS13

TECHNICAL DATA

Density range	0.175 – 1.075 g/cm³ dry density
Scanning depth	20 mm (13 mm min. thickness)
Menu languages	English, German, French, Spanish, Portuguese, Czech, Russian, Italian
Weight	215 g
Size (L x W x H)	150 x 73 x 23 mm
Measuring range	2 – 99 %
Operating temperature	0 – +40 °C
Storage temperature	-20 – +60 °C



As soon as the sensor plate is in contact with the surface of the wood measuring starts. The processor of the instrument analyses the sensor readings and displays the result as a percentage of moisture content in the wood.

WOOD MOISTURE METERS

HM9 WS Series

Wood Moisture Meter HM9 WS25 for cutting

NEW!

Non-destructive measurement

21 timber groups programmed

Display of wood moisture, dry density, timber group and minimum wood thickness

Automatic temperature compensation

Also suitable for chipboard

Self-calibration function

Display lighting

Automatic switch off

Battery control

8 menu languages

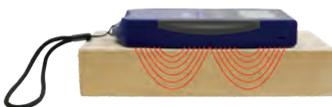
Incl. softcase, hand strap and 4 pcs. 1.5 V AA batteries



HM9 WS25

TECHNICAL DATA

Density range	0.175 – 1.075 g/cm³ dry density
Scanning depth	40 mm (25 mm min. thickness)
Menu languages	English, German, French, Spanish, Portuguese, Czech, Russian, Italian
Weight	215 g
Size (L x W x H)	150 x 73 x 23 mm
Measuring range	2 – 99 %
Operating temperature	0 – +40 °C
Storage temperature	-20 – +60 °C



As soon as the sensor plate is in contact with the surface of the wood measuring starts. The processor of the instrument analyses the sensor readings and displays the result as a percentage of moisture content in the wood.

WOOD MOISTURE METERS

EVO Series

Wood Moisture Meter EVO WW for wood products with planed surface

Multifunctional

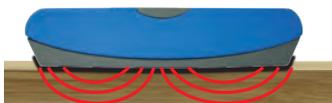
Non-destructive measurement
Wood moisture and temperature measuring
21 timber groups programmed
Evaluation of wood moisture (dry – optimal – moist – wet)
Display of wood moisture with evaluation, temperature, minimum wood thickness, dry density and timber group
Selection of timber group resp. dry density through high-definition 128 x 64 matrix display
Automatic self-calibration function
Hold function of the measured value
Display lighting
Automatic switch off
Battery control
7 menu languages
Incl. softcase and 4 x 1.5 V AAA Alkaline batteries



EVO WW

TECHNICAL DATA

Density range	0.175 – 1.075 g/cm³ dry density
Scanning depth	20 mm (13 mm min. thickness)
Menu languages	English, German, French, Spanish, Portuguese, Czech, Russian
Weight	175 g
Size (L x W x H)	124 x 71 x 30 mm
Measuring range	2 – 99 %
Temperature range	-10 – +60 °C
Operating temperature	0 – +40 °C
Storage temperature	-20 – +60 °C



As soon as the sensor plate is in contact with the surface of the wood measuring starts. The processor of the instrument analyses the sensor readings and displays the result as a percentage of moisture content in the wood.

WOOD MOISTURE METERS

EVO Series

Wood Moisture Meter EVO SM for wood products with rough sawn surface

Multifunctional

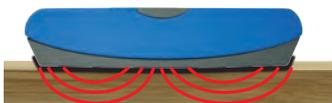
Non-destructive measurement
Wood moisture and temperature measuring
21 timber groups programmed
Evaluation of wood moisture (dry – optimal – moist – wet)
Display of wood moisture with evaluation, temperature, minimum wood thickness, dry density and timber group
Selection of timber group resp. dry density through high-definition 128 x 64 matrix display
Automatic self-calibration function
Hold function of the measured value
Display lighting
Automatic switch off
Battery control
7 menu languages
Incl. softcase and 4 x 1.5 V AAA Alkaline batteries



EVO SM

TECHNICAL DATA

Density range	0.175 – 1.075 g/cm³ dry density
Scanning depth	40 mm (25 mm min. thickness)
Menu languages	English, German, French, Spanish, Portuguese, Czech, Russian
Weight	175 g
Size (L x W x H)	124 x 71 x 30 mm
Measuring range	2 – 99 %
Temperature range	-10 – +60 °C
Operating temperature	0 – +40°C
Storage temperature	-20 – +60 °C



As soon as the sensor plate is in contact with the surface of the wood measuring starts. The processor of the instrument analyses the sensor readings and displays the result as a percentage of moisture content in the wood.

ACCESSORIES

for wood moisture meters

Test board PP2

For merlin[®] moisture meters of HM9 WS, EVO, and ECO series. Check of specific density range adjustments. This board is made from a special material which is stable in moisture content within 0.1% across a temperature range of 10° to 35°C. During the check at the test board, each type of meter shows you a specific percentage.



PP2

BUILDING MOISTURE METERS

EVO Series

Building Moisture Meter EVO CC for non-destructive measurement of screed, concrete, plasterboard and cinderblock

Building moisture meter
12 materials (characteristics) programmed + digit
Display of CM characteristic
Evaluation of wood moisture (dry – optimal – moist – wet)
Display of moisture value with evaluation, temperature, scanning depth and selected characteristic
Select. of characteristic through high-definition 128 x 64 matrix display
Automatic self-calibration function
Hold function of the measured value
Display lighting
Automatic switch off
Battery control
7 menu languages
Incl. softcase and 4 x 1.5 V AAA Alkaline batteries



EVO CC

TECHNICAL DATA	
Density range	300 – 2,600 g/cm ³ dry density
Scanning depth	30 mm (25 mm min. thickness)
Menu languages	English, German, French, Spanish, Portuguese, Czech, Russian
Weight	175 g
Size (L x W x H)	124 x 71 x 30 mm
Measuring range	0 – 100 % water content (dep. on material)
Temperature range	-10 – +60 °C
Operating temperature	0 – +40 °C
Storage temperature	-20 – +60 °C

COMBINED MOISTURE METERS

Wood & Building Moisture

Combined Moisture Meter MOISTEC PRO*

SPECIAL OFFER!

Automatic calibration function and temperature compensation

Hold function of measured value

Display lighting

Incl. belt pouch + lanyard; incl. 2 pcs. AAA Alkaline batteries

TECHNICAL DATA

Weight	75 g
Size (L x W x H)	110 x 43 x 25 mm
Operating temperature	5 – 40 °C / 41 – 104 °F

Wood

Measuring range	2 – 65 %
Density range	420 – 700 kg/m ³
Scanning depth	20 mm
8 wood groups preprogrammed	

Building material

Measuring range	0.1 – 35 % (10 % product-specific)
Density range	1,800 – 2,400 kg/m ³
Scanning depth	10 mm
4 material groups preprogrammed	

Temperature

Measuring range	-10 – +60 °C / 14 – 140 °F
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MOISTEC PRO

* run-out model

COMBINED MOISTURE METERS

Wood Moisture & Air Humidity

Combined Moisture Meter EVO FC
with external sensors
**for timber products with planed surface and for measurement
of air humidity as well as temperature**

Wood moisture and temperature measuring

21 timber groups programmed

Display of moisture value with evaluation, temperature, scanning
depth, dry density and timber group

Connection of external sensors possible

Selection of timber group resp. dry density through high-definition
128 x 64 matrix display

Automatic self-calibration function

Hold function of the measured value

Display lighting

Automatic switch off

Battery control

8 menu languages

Incl. rubber protector, plastic case and 4 x 1.5 V AA Alkaline batteries

CUSTOMIZABLE!

Optional accessories: external sensors pages 20 – 24



EVO FC

TECHNICAL DATA

Density range	0.175 – 1.075 g/cm ³ dry density
Scanning depth	8 mm (5 mm min. thickness)
Menu languages	English, German, French, Spanish, Portuguese, Czech, Russian, Italian
Weight	266 g
Size (L x W x H)	145 x 65 x 27 mm
Measuring range	2 – 99 %
Temperature range	-10 – +60 °C
Operating temperature	0 – +40 °C
Storage temperature	-20 – +60 °C



As soon as the sensor plate is in contact with the surface of the wood measuring starts. The processor of the instrument analyses the sensor readings and displays the result as a percentage of moisture content in the wood.

Optional accessories:
 External sensors for the measurement
 of relative humidity, dew point and EMC
 (Equilibrium moisture content of wood)

**RECOMMENDED
 CONFIGURATION**

- Painters
- Master builders
- Building surveyors
- Carpenters
- Interior works
- Restoration and dehumidification
- Caretakers
- Bottomers



Precision humidity and temperature probe for material moisture

EVO-AC/FC-PPTF



Humidity and temperature sensor

EVO-AC/FC-LFTS



Humidity and temperature probe with sensor tube

EVO-AC/FC-FTFS



Measuring sleeve for screed

EVO-AC/FC-FTFS-ET01



Handle

EVO-AC/FC-FTFS-ET02



COMBINED MOISTURE METERS

Building Moisture & Air Humidity

Combined Moisture Meter EVO AC with external sensors

for building moisture, air humidity, indoor climate, dew point, equilibrium moisture content, air and surface temperature, registration of climate data, as well as material moisture measurement

Automatic temperature compensation

Display of moisture value with evaluation, temperature and characteristic

Measurement within seconds without prior treatment of samples

Data log for 10,000 logs with measuring point report

High-definition 128 x 64 mm matrix display

Temperature can be switched from °C to °F

Hold function of the measured value

Display lighting

Automatic switch off

Battery control

7 menu languages

Incl. rubber protector and 4 x 1.5 V AA Alkaline batteries

CUSTOMIZABLE!

Optional accessories: external sensors pages 20 – 24



EVO AC

TECHNICAL DATA

Build. measuring range	Depends on material
Resolution	0.1 % moisture content
Air humidity range	0 – 100 % r. h.
CO² measurement	5,000 ppm
Menu languages	English, German, French, Spanish, Portuguese, Czech, Russian
Weight	265 g
Size (L x W x H)	147 x 75 x 30 mm
Temperature range	-25 – +125 °C
Operating temperature	0 – +40 °C
Storage temperature	-20 – +60 °C



As soon as the sensor plate is in contact with the surface of the wood measuring starts. The processor of the instrument analyses the sensor readings and displays the result as a percentage of moisture content in the wood.

EVO AC External sensors



Integrated sensor for parquet floor
EVO-AC-ES



Humidity and temperature sensor
EVO-AC/FC-LFTS



Infrared temp. sensor
EVO-AC-IR



CO₂ Sensor
EVO-AC-CO2



Precision humidity and temperature probe
EVO-AC/FC-PFTF



USB data interface module
EVO-USB



Připojka pro externí senzory



Humidity and temperature probe
EVO-AC/FC-FTFS



Measuring bushes
EVO-AC/FC-FTFS-ET01



Handle
EVO-AC/FC-FTFS-ET02



RECOMMENDED CONFIGURATION

- Painters
- Master builders
- Building surveyors
- Carpenters
- Interior works
- Restoration and dehumidification
- Caretakers
- Bottomers



Hand electrode
EVO-AC-HE



Pair of flat electrodes (300 mm)
EVO-AC-FE



Plug-in electrodes
EVO-AC-EE



External conductance electronics
EVO-AC-LE



Ram-electrode
EVO-AC-RE



ACCESSORIES

for EVO FC and EVO AC

Humidity and temperature sensor

Pluggable humidity and temperature sensor for EVO AC and EVO FC. Using this sensor, for example the appearance of mould can be detected in advance and counteractions can be taken. The determination of the dew point temperature can reveal an eventual creation of condensed water at an early stage. Automatic data recording in adjustable time intervals is possible (with EVO AC).

TECHNICAL DATA	
Relative air humidity	0 – 100 r. h. (resolution 0.1 %)
Temperature	-10 – +60 °C (resolution 0.1 %; +/- 0.3 °C at 25 °C)
Weight	10 g
Size	Ø 12 x 72 mm



EVO-AC/FC-LFTS

Precision humidity and temperature probe with stainless steel tube

For material moisture, sensor head 0.3 m stainless steel tube with steel sinter cap und 2 m connection cable, very fast adjustment behaviour. Furthermore, the robust stainless steel tube offers the possibility to determine relative air humidity and temperature also in the brickworks. For detecting potential problems of condensation in the brickworks or connection joints, also the dew point in the brickworks can be determined.

TECHNICAL DATA	
Relative air humidity	0 – 100 r. h. (resolution 0.1 %)
Temperature	-10 – +60 °C (resolution 0.1 %; +/- 0.3 °C at 25 °C)
Weight	10 g
Size	Ø 12 x 72 mm



EVO-AC/FC-PFTF

ACCESSORIES

for EVO FC and EVO AC

Humidity and temperature probe with sensor tube

With Ø 8 mm plastic sensor tube for measuring sleeves, with 2 m sensor cable, suitable for measuring bushes for screed. With the aid of the measuring bushes EVO-AC/FC-FTFS-ET01, the relative air humidity in the floor screed can be determined. The measuring bush has to be opened at the desired measuring depth with the hammering aid.

TECHNICAL DATA	
Relative air humidity	0 – 100 r. h. (resolution 0.1 %)
Temperature	-10 – +60 °C (resolution 0.1 %; +/- 0.3 °C at 25 °C)
Weight	100 g
Size	Ø 8 x 150 mm



EVO-AC/FC-FTFS

Measuring bushes for screed

Suitable for humidity and temperature probe
Plastic sleeves for insertion into a Ø 12 bore
20 bushes with stubble and impact aid
For use in combination with EVO-AC / FC-FTFS



EVO-AC/FC-FTFS-ET01

Handle

Handle for humidity and temperature probe with Ø 8 mm sensor tube
Optional retrofit kit (plug-on installation), turned part
Made of POM black
For use in combination with EVO-AC / FC-FTFS



EVO-AC/FC-FTFS-ET02

Conductance electronics

only for EVO AC

plug-in electronics box with 1 m cable for connection of external conductivity sensors with BNC socket

This external conductance electronics is necessary to connect the optionally available conductance sensors (EVO-AC-FE, EVO-AC-EE, EVO-AC-HE, EVO-AC-RE) to the EVO AC.



EVO-AC-LE

ACCESSORIES

for EVO FC and EVO AC

Hand electrode with measuring tips only for EVO AC

Hand electrode with 10 spare tips 16 mm and 10 spare tips 23 mm.

The hand electrode can be used for measuring different materials like plaster, gypsum or wood. Simply connect the conductance electronics to your humimeter device and the hand electrode to the conductance electronics. Then plug in the measuring tips of the hand electrode into the material to measure. **For connection to the EVO AC the EVO-AC-LE conductance electronics is required!**



EVO-AC-HE

Plug-in electrode pair only for EVO AC

With 10 electrode tips 40 / 60 mm.

The plug-in electrodes are used for determining the water content of hardened and set building materials. **For connection to the EVO AC the EVO-AC-LE conductance electronics is required!**



EVO-AC-EE

Flat electrode pair with a length of 300 m only for EVO AC

The flat electrodes are used for detecting moisture in expansion joints and edge joints. Furthermore the moisture in the insulation or in the fill can be measured. **For connection to the EVO AC the EVO-AC-LE conductance electronics is required!**



EVO-AC-FE

ACCESSORIES

for EVO FC and EVO AC

Ram electrode only for EVO AC

Hammer (ram electrode) with BNC cable, without measuring tips.

The ram electrode is used for measuring the water content in timberwork, for example in the roof framework. With this hammer the delivered measuring tips can easily be deeply inserted into the wood. This way eventual construction defects or moisture problems can easily be detected and corrected previously. **For connection to the EVO AC the EVO-AC-LE conductance electronics is required!**



EVO-AC-RE

Contactless IR temperature sensor only for EVO AC

Shows the current temperature of the object beamed by the sensor. The sensor has a 1:10 optics, which means a measuring area of 16 cm at a distance of 1 meter.

IR temperat. measurement	-25 – +125 °C
Measuring surface	Ø 16 cm to 1 m distance



EVO-AC-IR

Integrated sensor for parquet floor only for EVO AC

Integrated sensor for parquet floor building moisture measurement of relative humidity and temperature. For direct installation in the parquet floor.



EVO-AC-ES

ACCESSORIES

for EVO FC and EVO AC

CO₂ Sensor only for EVO AC

With this sensor resp. calibration curve the air quality can be measured. The measuring range is up to 5,000 ppm (parts per million). By putting on and tightening the sensor is activated. The CO₂ sensor measures in intervals of 15 seconds. The CO₂ value is the essential criterion for evaluating the air quality. The aim should be to not exceed a CO₂ value of 1,000 ppm. 1,400 ppm is the upper limit for acceptable room air.

Measuring range	0 – 5,000 ppm (parts per million)
Accuracy	< +/- 50 ppm +3 % from measured value
Operating temperature	-10 – +60 °C
Measuring interval	ca. 10 sec
Size	Ø 28 x 108 mm



EVO-AC-CO2

USB data interface module

only for EVO AC

Data recording and analysing software on USB flash drive incl. USB cable for PC.



EVO-USB

Plastic case L

for EVO FC and EVO AC with small accessories

Recommended configurations:

- Painters
- Interior works
- Bottomers

see page 19



EVO-AC-K-L

Size	340 x 275 x 83 mm
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Plastic case XL

for EVO FC and EVO AC with big accessories

Recommended configurations:

- Builders
- Surveyors
- Carpenters
- Restoration and dehumidification
- Caretakers

see page 19



EVO-AC-K-XL

Size	450 x 360 x 106 mm
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PAPER MOISTURE METERS

for kraft paper, packaging paper and paperboard

Paper Moisture Meter PMC2

Predominantly for kraft paper, packaging paper and paperboard

Automatic temperature compensation

Incl. 9 V battery, rubber protection, wooden box and test board

TECHNICAL DATA

Measuring range	3 – 10 %
Scanning depth	13 mm
Resolution	0.1 %
Size (L x W x H)	120 x 60 x 26 mm



HM8 PMC2

Thermo-Hygrometer type HM8 RLF/TS with sword probe in wooden box, especially suitable for measurement in paper stacks

For measurement of relative humidity, temperature and dew point

Hold function

Manual storage of measuring results

Display of moisture value, temperature and characteristic

Auto-data-logger for 10,000 measuring values with description

Supplier data log function

Incl. wooden box and battery

TECHNICAL DATA

Relative air humidity	0 – 100 % Resolution: 0.1 % r. h.
Temperature	-10 – +60 °C (14 – 140 °F) Resolution: 0.1 °C
Dew point	-55 – +60 °C (-67 – 140 °F) Resolution: 0.1 °C
Menu languages	German, English, Italian, French



HM8 RLF/TS

ACCESSORIES

for paper moisture meters

Rubber protection for PMC2 meters

Additional protection for all PMC2 moisture meters or for reordering for PMC2 moisture meters. The rubber protector increases the stability of the display and the housing.



HM8-GP

Nylon belt for PMC2 meters

Suitable for any belt to have meters ready to hand at any time.



HM8-GT

Sleeve for thermo-hygrometer RLF/TS

Protects the tracer of the RLF/TS at extremely mechanic load by measuring cardboard. Made of stainless steel (SS316F / 1.4436).



HM8-RLF/TS-SH

Size	450 x 360 x 106 mm
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TEMPERATURE AND HUMIDITY METERS

Thermo-Hygrometer Type HM8 RLF/T in wooden box

Moisture Meter to check the relative humidity, temperature, dew point, EMC equilibrium moisture content of wood and absolute humidity.

Hold funktion
Manual storage of measuring results
Auto-data-logger for 10,000 measuring values with meas. point report
Supplier's data can be recorded
Incl. wooden box and battery

TECHNICAL DATA

Relative air humidity	0 – 100 % Resolution: 0.1 % r. h.
Temperature	-10 – +60 °C (14 – 140 °F) Resolution: 0.1 °C
Dew point	-55 – +60 °C (-67 – 140 °F) Resolution: 0.1 °C
Abs. humidity	0 – 130 g/m ³ Resolution: 0.1 g/m ³
Equilibrium moisture content of wood (EMC)	2 – 30 % Resolution: 0.1 %
Menu languages	German, English, Italian, French



HM8 RLF/T

Digital Comfort Thermo-Hygrometer TH-C

With storage function of min. and max. measurement values
Display with comfort level indication
Magnetic holding
°C / °F selectable
Battery-operated
Incl. 2 x 1.5 V AAA battery

TECHNICAL DATA

Temperature	0 – +50 °C / +32 – +122 °F
Humidity	20 – 95 % r. h.



TH-C

TEMPERATURE AND HUMIDITY METERS

Data Logger RECORD 3

**mobile measuring device for temperature (°C)
and relative humidity (r. h.)**

10 s up to 24 h logging interval

Alarm over- and under value for °C / r. h.

Download of logging files without interruption

Freely programmable

Double spaced LCD display

Data memory for 32,000 values to be retrieved and evaluated by PC
or laptop

Incl. wall mount, software, data cable, ON/OFF magnet and sensor
dust protection, 1x 3.6 V AA lithium battery

TECHNICAL DATA	
Temperature	-30 – +70 °C
Accuracy	± 0.6 °C from -30 – +30 ± 0.8 °C from +30 – +70
Humidity	0 – 100 % r. h.
Accuracy	± 3 % r. h. from 5 – 95 % r. h. at 23 °C



RECORD 3

ACCESSORIES

for data logger RECORD 3

Sensor dust protection for high dust load
for data logger RECORD 3

Filter to change. Suitable for high dust loads



GLOG-SCB

Start/Stop magnet for data logger RECORD 3



GLOG-LP004

USB data cable for data logger RECORD 3



GLOG-LP003

Cloud Logger

On request, network-compatible datalogger solutions can be offered.

BIOMASS MOISTURE METERS

Tested in accredited test laboratory!

Biomass Moisture Meter EVO BIO

NEW!

Moisture meter for quick and accurate determination of water content of wood chips

For suppliers and operators of heating plants using biomass.

Calibration accuracy to reference material: +/-1.5 %

Customer calibration function for special products

Measurement within seconds without prior treatment of samples

Programmed wood chip characteristic curves – further characteristic curves optionally available

13 litre sample volume

Automatic temperature compensation

Temperature range for water content determination: 0 – 40 °C

Sample temperature measurement

Temperature can be set to °C or °F as required

Hold function, manual saving of results of up to 10,000 measuring values with measuring point report

Optimized processors / software and scrolling function in the menu

High resolution LCD display

Robust stainless housing

Supplier's data management

Incl. plastic bucket, batteries

OPTIONAL: Factory calibration certificate



EVO BIO

TECHNICAL DATA

Measuring range	5 – 50 % water content, depending on the material
Resolution	0.5 % water content
Menu languages	English, German, French, Spanish, Portuguese, Czech, Russian, Italian, Polish

Biomass Moisture Meter EVO BIO PC incl. PC interface and rechargeable battery

Specification as mentioned above! Including following features:

PC interface (USB), PC software and USB cable

OPTIONAL: printer, (price on application)



EVO BIO PC

BIOMASS MOISTURE METERS

Tested in accredited test laboratory!

Biomass Moisture Meter EVO CHIPS

with insertion probe For determination of the water content of wood chips

Length of stainless insertion probe: 1 meter

Calibration accuracy to reference material: +/- 2.5 %

Sample temperature measurement

Automatic temperature compensation

Temperature range for determination of water content 0 to +40 °C

Temperature can be set to °C or °F as required

Measurement within seconds without prior treatment of samples

Hold function, manual saving of results, data log for 10,000 logs with measuring point report

Supplier's data can be recorded

High resolution LCD display

Incl. wooden box and grab bar (steel)

TECHNICAL DATA

Water content	10 – 50 % (represents 100 % wood moisture) Resolution: 0.5 %
Temperature	-10 – +80 °C

Biomass Moisture Meter EVO CHIPS PC

incl. PC interface

Specification as mentioned above! Including following features:

PC interface (USB)

PC software for measuring data recording and analysis

USB Kabel für PC



EVO CHIPS



EVO CHIPS PC

BIOMASS MOISTURE METERS

Tested in accredited test laboratory!

Timber Moisture Meter MOISTEC BIO

for measurements with high water content (till 60 % water content) and measuring depth. MOISTEC BIO is ideal for operators of biomass heating system and wood suppliers or purchasers of raw wood and logs.

Automatic temperature compensation

Temperature can be set to °C or °F as required

hold function, manual saving of results, data log for 10,000 logs

High resolution LCD display

Measurement within seconds without prior treatment of samples

Incl. plastic case, ram-electrode, measuring tips and batteries

OPTIONAL:

printer, measuring tips (price on application)



MOISTEC BIO

TECHNICAL DATA

Water content	10 – 60 % (represents 150 % wood moisture) Resolution: 0.1 %
Optional Wood moisture	6.3 – 150 % (instead of water content) (Resolution: 0.1 %)
Temperature	-10 – +80 °C

Timber Moisture Meter MOISTEC BIO PC incl. PC interface

Specification as mentioned above! Including following features:

PC interface (USB)

PC software for measuring data recording and analysis

USB cable for PC



MOISTEC BIO PC

Superior humidification technologies

As a specialist for **air humidification systems and measuring devices**, Merlin Technology GmbH, whose roots go back to 1995, stands for excellent quality and top service. We guarantee optimal climatic conditions for humans, materials and machines and create the perfect prerequisites for increasing productivity, success and well-being.

When it comes to controlling moisture content, merlin[®] is one of the leading suppliers of non-destructive measuring devices for wood, paper and building materials. Our portable measuring devices have enjoyed an outstanding reputation for 20 years and are exported to more than 70 countries.

Certificates

merlin[®] has won many innovation awards and has multiple ISO certifications:



Other standards

Austrian standard (ÖNORM) H 6020-1:2007 'Ventilation Systems in Medical Institutions – Planning, Construction and Inspection'

ISO 13485:2012 'Medical Devices – Quality Management Systems – Requirements for Regulatory Purposes'



And all this for a single purpose:
To offer our customers **superior humidification technologies**.
You can take our word for it.

Internationally trained personnel

Our service employees are multilingual and internationally trained. This allows us to quickly respond in (almost) every part of the world.

Service hotline

Our customer service is available for you.
We look forward to receiving your inquiry.

Tel. +43 (0) 7752 71966

Monday – Thursday: 07.30 a.m. – 5 p.m.
Friday: 7.30 a.m. – 12.15 p.m.

Tel. +43 (0) 699 1400 1452

Our service hotline is also available during our company holidays.



**MAKE YOUR
BUSINESS
SMILE!**



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