Product
moisture meters
2014/2015

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SCHALLER GMBH

Klima/Umwelt
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Lebensmittel
Foods

Bioenergie
Bioenergy

Material
Material

Gebäude
Buildings

Papier/Karton
Paper/Board

Climate/Environment

Foods

Bioenergy

Material

Buildings

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Klima / Umwelt
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Lebensmittel
Foods
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Bioenergy
Material
Material
Gebäude
Buildings
Papier / Karton
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![humimeter.com SCHALLER GMBH logo] Moisture meters for climatic and environmental applications, price list 2014 /15

humimeter RH1
Relative humidity meter with datalog

Applications:

A revolutionary powerful portable measuring instrument series with innovative sensor technology for measuring humidity in climatic and environmental applications.

Features:

- Relative air humidity 0 to 100%, resolution 0.1%RH
- Calibration 10 to 90% ±1.5%RH (at 25°C)
- Temperature can be set to °C or °F as required
- Temperature -10 to +60°C / 14 to 140°F, resolution 0.1°C
- Calibration ±0.3°C (at 25°C)
- Dew point -55 to +60°C / -67 to 140°F, resolution 0.1°C
- Absolute air humidity 0 to 130 g/m³, resolution 0.1g/m³
- Equilibrium moisture content UGL 2 to 30%, resolution 0.1%
- Calibration UGL 5 to 15%, accuracy ±0.5% (at 25°C)
- Hold function, manual saving of results
- Automatic data log for 10,000 logs with measuring point report
- Supplier´s data management
- Scope of supply: humimeter RH1 incl. rubber protection cover and batteries

Your benefits:

- Very quick balancing
- Long-time stable humidity and temperature sensors
- Easy data storage at the portable moisture meter
- Optimal documentation of your quality
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

article no**.** 11487   **- €**

Accessories - possible add-ons:

article no. 12278	humimeter USB data interface module with LogMemorizer measuring data recording and analysing soft-ware on USB flash drive incl. USB cable for PC	**- €**
article no. 12485	humimeter USB data interface module VERSION FOR RECHARGEABLE BATTERIES with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	**- €**
article no. 11733	Thermo printer runs by battery, industrial model, portable	**.- €**
article no. 11988	Wall holder assembled on humimeter RH1/RH2	**.- €**
article no. 10006	Calibration equipment for tube sensor	**.- €**
article no. 10005	Certified calibration ampoules - set of 5, 2 x 35 % r.h., 1 x 50 % r.h., 2 x 80 % r.h	**& - €**
article no. 10352	Certified calibration ampoules - set of 5, 50 % r.h.	**&- €**
article no. 11911	Wooden case for humimeter RH1	**&- €**

humimeter RH2
Precise Climate Moisture Analyzer with datalog for laboratory, climatic and environmental applications

Applications:

A revolutionary powerful portable measuring instrument series with innovative sensor technology for measuring humidity in climatic and environmental applications.

Features:

- Measuring range relative humidity: depending on the sensor, resolution 0.1% RH
- Temperature can be set to °C or °F as required
- Measuring range temperature: depending on the sensor, resolution 0.1°C
- Dew point -55 to +60°C / -67 to 140°F, resolution 0.1°C
- Absolute humidity 0 to 130 g/m³, resolution 0.1g/m³
- Equilibrium moisture content UGL 2 to 30%, resolution 0.1%
- User programmeable characteristic curves for calculation of equilibrium moisture content
- Online function, Hold function, manual data storage
- Automatic datalog for 10,000 logs with measuring point report
- Supplier´s data management
- Scope of supply: humimeter RH2 with rubber protection cover and batteries
- Required accessories: sensor

  Selectable sensors: article no. 12032, 12004, 12106 or 12168

Your benefits:

- Measurement of relative humidity, absolute humidity, dew point, equilibrium moisture content, activity of water (Aw) value
- Selectable sensor types
- Long-time stable humidity and temperature sensors
- Easy data storage at the portable moisture meter
- Very quick balancing
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

article no. 12005   **- €**

Accessories - possible add-ons:

article no. 12248	Wooden case for humimeter RH2	**& . €**
article no. 12278	humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	**&- €**
article no. 12484	Automatic datalog with 8 ports (4 for moisture/4 for temperature), Converter from USB to Ethernet for connection of humimeter devices, incl. measuring data recording and analysing software for PC	**&- €**
article no. 12485	humimeter USB data interface module VERSION FOR RECHARGEABLE BATTERIES with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	**&- €**
article no. 12032	Moisture and temperature sensor with 2 meter connection cable. Powered by humimeter RH2, relative humidity 0 to 100 % rh, calibration 10 to 90 % +/- 2.0 % RH (at 25 °C), temperature range - 20 to + 85 °C / -4 to 185 °F, calibration +/- 0.3 °C (at 25 °C), rapid conditioning	**&- €**

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Moisture meters for climatic and environmental applications, price list 2014 /15

article no. 12004	LF_TB 120 Precision moisture and temperature plug-in sensor for material moisture, sensor head 0.3 m stainless tube with steel sinter cap and 2 meter connection cable Powered by humimeter RH2, relative humidity 0 to 100 % rh, calibration 10 to 90 % +/- 1.5 % r.h. (at 25 °C), temperature range - 20 to + 120 °C / -4 to 248 °F, calibration +/- 0.3 °C (at 25 °C), rapid conditioning	&.- €
article no. 10613	Paper web adapter for humimeter RH2 and LF series	&.- €
article no. 12106	LF_TT Precision humidity and temperature sensor, compressed air sensor, sensor head with compressed air coupling and connection cable of 2 meters length	&.- €
article no. 12168	Activity of water value measuring chamber and moisture and temperature sensor with connection cable of 2 meters length	&.- €
article no. 11988	Wall holder assembled on humimeter RH1/RH	&.- €
article no. 10249	Stainless steel sinter sensor cap, stainless steel sinter filter: For applications at high temperatures and harsh operating conditions	&.- €
article no. 11733	Thermo printer runs by battery, industrial model, portable	&.- €
article no. 10006	Calibration equipment for tube sensor	&.- €
article no. 10005	Certified calibration ampoules - set of 5, 2 x 35% r.h., 1 x 50 % r.h., 2 x 80% r.h	&.- €
article no. 10352	Certified calibration ampoules - set of 5, 50% r.h.	&.- €
article no. 12627	Bluetooth module pluggable, class 1 (up to 100 metres) module for humimeter devices with USB interface and appropriate software	&.- €
article no. 12166	Analogue output module for humimeter devices	&.- €
article no. 12309	Option relay output	&.- €
article no. 12167	Conversion of analogue signal into ProfibusDP	&.- €
article no. 13224	Extension cable of 8 meters for humimeter RH2 sensors	&.- €

article no. 12004

article no. 12032

![humimeter.com SCHALLER GMBH]

Temperature transmitter

article no. 12334 Precision air temperature transmitter **–**20 to +60°C/-4 to 140°F **- €**
Power supply DC 24 V (DC 15 to 29 V),
Electronics temperature range -20 to +60°C / -4 to 140°F,
Calibration +/-0.2°C (at 25°C),
Output temperature 4 to 20mA (-20 to +60°C / -4 to 140°F),
Scaling: 0.2mA/°C

article no. 10347 T 85/120 Temperature transmitter -40 to +120°C/-40 to 248°F **&- €**
with sensor tube made of stainless steel and feeder clamp
Power supply: DC 24 V (DC 15 to 29 V),
Electronics temperature range: -20 to +85°C / -4 to 185°F,
Calibration: +/-0.5 °C (at 25 °C),
Output (temperature): 4 to 20 mA (-40 to +120°C / -40 to 248°F),
Scaling: 0.1 mA/°C,
With wall holder

Air humidity and temperature transmitter LF-TD

Applications:
Humidity transmitter for applications in laboratory and climate control, drying technology, wood processing industry, food industry, animal feed industry, building industry, agriculture, printing and paper industry, biotechnology and pharmaceutical industry

article no. 12609	LF-TD 60 digital humidity and temperature transmitter, temperature range -20 to +60°C / -4 to 140°F, plastic sensor tube Ø12x100 mm with filter	**&- €**
article no. 12665	LF-TD 90 digital humidity and temperature transmitter, temperature range -20 to +90°C / -4 to 194°F, stainless steel sensor tube Ø12x125 mm, incl. plastic sensor cap with filter	**&- €**
article no. 12655	LF-TD 120 digital humidity and temperature transmitter, temperature range -20 to +120°C / -4 to 248°F, stainless steel sensor tube Ø12x500 mm, incl. stainless steel sinter sensor cap	**&- €**
article no. 12667	LF-TD 150 digital humidity and temperature transmitter, temperature range -20 to +150°C / -4 to 302°F, stainless steel sensor tube Ø12x750 mm, incl. stainless steel sinter sensor cap	**&- €**
article no. 12938	LF-TD 180 digital humidity and temperature transmitter, temperature range -20 to +180°C /- 4 to 356°F, sensor head 1 meter cable, incl. stainless steel sinter sensor cap	**&- €**
article no. 13082	LF-TD-E digital humidity and temperature transmitter with Ethernet interface, temperature range -20 to +60°C / -4 to 140°F, plastic sensor tube Ø12x100 mm with filter	**&- €**
article no. 13083	LF-TD-U digital humidity and temperature transmitter with USB interface, temperature range -20 to +60°C / -4 to 140°F, plastic sensor tube Ø12x100 mm with filter	**&- €**
article no. 13110	LF-TD-ER digital humidity and temperature transmitter with Ethernet interface, temperature range -20 to +90°C / -4 to 194°F, stainless steel sensor tube Ø12x400 mm	**&- €**

Air humidity and temperature transmitter LF-TD

Accessories - possible add-ons:

article no. 10006	Calibration equipment for tube sensor	& €
article no. 10352	Certified calibration ampoules - set of 5, 50 % r.h.	& €
article no. 10005	Certified calibration ampoules - set of 5, 2 x 35 % r.h., 1 x 50 % r.h., 2 x 80 % r.h.	& €
article no. 10249	Stainless steel sinter sensor cap	& €
article no. 12456	Drip-catcher for LF-T transmitter	& €
article no. 12487	Stainless steel lattice filter	& €
article no. 10727	Bronze sinter sensor cap	& €
article no. 10403	Factory calibration certificate, protocol documenting the adjustment at delivery of air humidity meters	& €
article no. 12011	Special request - flat rate for air humidity transmitter series per order - irrespective of the quantity ordered	& €
article no. 12662	Display for LF-TD	& €
article no. 12806	Relay output for moisture for LF-TD	& €
article no. 12807	RS232 interface for LF-TD	& €
article no. 12808	USB interface for LF-TD	& €
article no. 12627	Bluetooth module pluggable, class 1 (up to 100 meters), module for humimeter devices with USB interface and appropriate software	& €
article no. 12809	Profinet interface for LF-TD	& €
article no. 12811	Modbus interface for LF-TD	& €
article no. 10550	5 meter connecting cable with sensor cable plug	& €
article no. 12464	USB plug power supply unit; output 5VDC, USB A socket; input: 90-250VAC, EU plug; -5 to +45°C / 23 to 113°F (only available for article no. 13082 and 13110)	& €

humimeter FS4
Universal grain moisture meter

Applications:

Whole grain meter with 300g sample weight and sample temperature measurement for use in farming, trading, seed growing, research, laboratories, food and animal feed industry.

Grain moisture meter for maize, rye, triticale, wheat, spelt, barley, oats, rape, pumpkin seeds, peas, soybeans, scarlet runner beans, horse beans, sunflower seeds, Jatropha, peeled and unpeeled raw coffee, roast and ground coffee, peeled, unpeeled and brown rice, poppy seeds, further species on request

With reference calibration curve and customer calibration function

Features:

■ Measuring range 0 to 50% water content, depending on the type

■ Resolution 0.1% water content

■ Calibration accuracy to reference material: +/-0.4%

■ Customer calibration function for special fruits, granulate etc.

■ Hectoliter compensated

■ Sample temperature measurement

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

■ Hold function, manual saving of results, datalog for 10,000 logs with measuring point report

■ Integrated online function for data transfer

■ Supplier´s data management

■ Automatic temperature compensation

■ Large, well-lit LC display

■ Measurement within seconds without prior treatment of samples

■ Robust stainless housing

■ Scope of supply: humimeter FS4 with rubber protection cover, humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC, digital scale, plastic case, measuring cup and batteries

Your benefits:

■ Very fast and accurate due to 300g whole grain measurement

■ For all product types and finished products

■ On request calibration of special products by the manufacturer possible

■ Reduces your drying costs

■ Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

article no. 11725

Accessories - possible add-ons:

€¢æ

article no. 11733	Thermo printer runs by battery, industrial model, portable	& €
article no. 11758	ISO measuring device check for FS2/FS3/FS4/BP1, test medium and standard weight	& €
article no. 10600	Factory calibration certificate, protocol documenting the adjustment at delivery for material moisture meters	&¢æ
article no. 11217	Laboratory analysis for preparation of a calibration curve for a new material for humimeter devices	€
article no .12297	Entry of an existing characteristic curve in a humimeter device	& €
article no. 12627	Bluetooth module pluggable, class 1 (up to 100 meters), module for humimeter devices with USB interface and appropriate software	& €
article no. 12311	Power supply unit for continuous operation of the scale	&€

humimeter FS3
Food and luxury food moisture meter

Applications:

Whole grain meter with 300 gram sample weight and sample temperature measurement for producers and businesses in the food industry. For peeled and unpeeled raw coffee, roast and ground coffee, cocoa beans, poppy seeds, pumpkin seeds, peas, soybeans, scarlet runner beans, wheat, rape, peeled, unpeeled and brown rice, linseed, sesame, sorghum and buckwheat.

Features:

- Measuring range 0 to 40% water content, depending on the type
- Resolution 0.1%
- Calibration accuracy to reference material: +/-0.4%
- Hectoliter compensated
- Sample temperature measurement
- Temperature can be set to °C or °F as required
- Automatic temperature compensation
- Measurement within seconds without prior treatment of samples
- Hold function
- Manual saving of results
- Datalog for 10,000 logs with measuring point report
- Supplier´s data management
- Robust stainless housing
- Large, well-lit LC display
- Scope of supply: humimeter FS3 with rubber protection cover, digital scale, plastic case, measuring cup and batteries

Your benefits:

- Very fast and accurate due to 300g whole grain measurement
- For all product types and finished products
- On request calibration of special products by the manufacturer possible
- Reduces your drying costs
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

Food/Grain

article no.12291   **€**

Accessories - possible add-ons:

article no.	Description	€
article no.12278	humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	**&¢æ €**
article no.11733	Thermo printer runs by battery, industrial model, portable (only with article no. 12278)	**& €**
article no.11758	ISO measuring device check for FS2/FS3/FS4/BP1, test medium and standard weight	**& €**
article no.10600	Factory calibration certificate, protocol documenting the adjustment at delivery for material moisture meters	**- €**
article no.11217	Laboratory analysis for preparation of a calibration curve for a new material for humimeter devices	**& €**
article no.12297	Entry of an existing characteristic curve in a humimeter device	**& €**
article no.12311	Power supply unit for continuous operation of the scale	**& €**

humimeter FS2
Grain moisture meter

Applications:

Whole grain meter with 300g sample weight and sample temperature measurement for use in farming, trading and animal feed industry.

Grain moisture meter for maize, rye, triticale, wheat, spelt, barley, oats, rape, pumpkin seeds, peas, soybeans, scarlet runner beans, horse beans, Jatropha, sunflower seeds, buckwheat, peeled, unpeeled and brown rice.

Features:

■ Measuring range 5 to 40% water content, depending on the type

■ Resolution 0.1%

■ Calibration accuracy to reference material: +/-0.4%

■ Hectoliter compensated

■ Sample temperature measurement

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

■ Hold function, manual saving of results, datalog for 10,000 logs with measuring point report

■ Supplier´s data management

■ Automatic temperature compensation

■ Large, well-lit LC display

■ Measurement within seconds without prior treatment of samples

■ Robust stainless housing

■ Scope of supply: humimeter FS2, digital scale, plastic case, measuring cup and batteries

Your benefits:

■ Very fast and accurate due to 300 g whole grain measurement

■ For all grain types

■ Reduces your drying costs

■ Measuring protects against mould and resulting damages

■ Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

■ Bulk pack: 10 % special discount for an order of a bulk pack of 5 units

article no.11753   **€**

Accessories - possible add-ons:

article no.11758	ISO measuring device check for FS2/FS3/FS4/BP1, test medium and standard weight	**& €**
article no.10600	Factory calibration certificate, protocol documenting the adjustment at delivery for material moisture meters	**& €**
article no.12297	Entry of an existing characteristic curve in a humimeter device	**& €**
article no.12311	Power supply unit for continuous operation of the scale	**& €**
article no.12449	Rubber protection cover for humimeter casing	**& €**

Food/Grain

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humimeter FS1
Grain moisture meter

Food/Grain

Applications:

Whole grain meter with low sample volume and sample temperature measurement for field tests in farming.

Grain moisture meter for maize, rye, triticale, wheat, barley, oats, rape, soybeans, horse beans, sunflower seeds, sorghum, mustard seeds, buckwheat, peeled and unpeeled rice, further species on request

Features:

- Measuring range 5 to 30% water content, depending on the type
- Resolution 0.1%
- Calibration accuracy to reference material: +/-0.7%
- Sample temperature measurement
- Temperature can be set to °C or °F as required
- Hold function
- Automatic temperature compensation
- Large, well-lit LC display
- Measurement within seconds without prior treatment of samples
- Robust housing
- Scope of supply: humimeter FS1 with batteries, digital scale, measuring cup and plastic case

Your benefits:

- Whole grain meter with low sample volume
- For a large number of grain types
- No preparation of samples necessary
- Reduces your drying costs
- Measuring protects against mould and resulting damages
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request
- Bulk pack: 10 % special discount for an order of a bulk pack of 10 units

article no.11752   €

humimeter FS1.1
Grain moisture meter

Applications:

Whole grain meter with low sample volume and sample temperature measurement for field tests in farming.

Grain moisture meter for maize, rye, triticale, wheat, barley, oats, rape, soybeans, horse beans, sunflower seeds, sorghum, mustard seeds, buckwheat, peeled and unpeeled rice.

Features:

■ Measuring range 5 to 25% water content, depending on the type

■ Resolution 0.1%

■ Calibration accuracy to reference material: +/-0.9%

■ Sample temperature measurement

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

■ Hold function

■ Automatic temperature compensation

■ Large, well-lit LC display

■ Measurement within seconds without prior treatment of samples

■ Robust housing

■ Scope of supply: humimeter FS1.1 with batteries, digital scale, measuring cup

Your benefits:

■ Whole grain meter with low sample volume

■ For a large number of grain types

■ No preparation of samples necessary

■ Reduces your drying costs

■ Measuring protects against mould and resulting damages

■ Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

■ Bulk pack: 10 % special discount for an order of a bulk pack of 10 units

article no. 12819   **- €**

Food/Grain

overview of grain moisture meter devices

device	resolution	calibration accuracy	measuring range	customer calibration	sample quantity	scale	display of temperature	memory	PC software + online function
FS 1.1	0.1%	0.9%	5 - 25 %		60 g	X	x		
FS 1	0.1%	0.7%	5 - 30 %		60 g	x	x		
FS 2	0.1%	0.4%	5 - 40 %		300 g	x	x	x	
FS 3	0.1%	0.4%	0 - 40 %		300 g	x	x	x	optional
FS 4	0.1%	0.4%	0 - 50 %	x	300 g	x	x	x	x
FL1	0.5%	1.0%	8 - 40 %				x		
FL2	0.1%	0.8%	8 - 60 %	x			x	x	x
BLO grain sensor	0.1%	1.0%	5-30 %				x	x	x

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humimeter BLO Online measuring system

Applications:

online measuring system for determination of water content of grain and further materials with adapted external sensors

Features:

■ Measuring range: see sensor

■ Resolution 0.1% water content

■ Temperature range for determination of water content: see sensor

■ Sample temperature measurement

■ Automatic temperature compensation

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

■ Datalog for 10,000 logs with measuring point report

■ Supplier´s data management

■ Large, well-lit LC display

■ Casing degree of protection IP54

■ Sensors adapted specifically to the material

■ Power supply: 24VDC

■ 2 analogue outputs 4 - 20 mA for water content and temperature

■ Optional: 2 relay outputs for moisture

■ Optional: humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC

Food/Grain

article no.12089   **&**

Accessories - possible add-ons:

| article no.12292 | FSM Grain moisture online sensor for humimeter BLO
Whole grain meter with sample temperature measurement for maize, rye, triticale, wheat, barley, oats, rape
Resolution 0.1%, measuring range 5 to 30%, sample temperature measurement –10 to +70°C / 14 to 158°F, temperature range for determination of water content 0 to +40°C / 32 to 104°F, automatic temperature compensation.
For connection to humimeter BLO (article no. 12089) | | **&- €** |

Sensors for further applications on request!

humimeter FL2
Hay and straw moisture meter

Moisture meter for measuring hay and straw, with very stable, fix mounted insertion probe of 0.6 meters length made of stainless steel. With calibration function for special materials.

Food/Grain

Features:

- Measuring range 8 to 60% water content, depending on the material
- Resolution 0.1%
- Calibration accuracy to reference material: +/-0.8%
- Automatic temperature compensation
- Temperature measuring range: -20°C to +120°C / -4°F to +248°F
- Temperature can be set to °C or °F as required
- Measurement within seconds
- Hold function, manual saving of results
- Datalog for 10,000 logs with measuring point report
- Supplier´s data management
- Large, well-lit LC display
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request
- Scope of supply: humimeter FL2 with rubber protection cover, humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC, compression plate for bulk material, wooden case and batteries

In addition to all functions of the FL1, the FL2 provides:

- Measuring range up to 60% water content
- Automatic averaging
- Compression plate for bulk material
- Online function for data transfer
- Integrated memory and printer connection
- Calibration function for special products (by the manufacturer)
- humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC
- Wooden case

article no.12290

&

Accessories - possible add-ons:

article no.11733	Thermo printer runs by battery, industrial model	& €
article no.12308	Test block for humimeter FL1, FL2, BLL, BL2, WLW, BLW, SLW and BLO	& €
article no.11217	Laboratory analysis for preparation of a calibration curve for a new material for humimeter devices	&€
article no.12297	Entry of an existing characteristic curve in a humimeter device	& €

humimeter FL1
Hay and straw moisture meter

Moisture meter for measuring hay and straw, with very stable, fix mounted insertion probe of 0.6 meters length made of stainless steel

Features:

- Measuring range 8 to 40% water content
- Resolution 0.5%
- Calibration accuracy to reference material: +/-1.0%
- Automatic temperature compensation
- Temperature measuring range: -20°C to +85°C / -4°F to +185°F
- Temperature can be set to °C or °F as required
- Measurement within seconds
- Hold function
- Large, well-lit LC display
- Scope of supply: humimeter FL1 with rubber protection cover and batteries

Your benefits:

- Very easy to operate
- Measurement of moisture and temperature
- Automatic temperature compensation
- A revolutionary powerful moisture measuring instrument series using innovative sensor technology
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

Food/Grain

article no.12245

& €

Accessories - possible add-ons:

article no.12289	Wooden case for humimeter FL1/FL2	**&- €**
article no.12308	Test block for humimeter FL1, FL2, BLL, BL2, WLW, BLW, SLW and BLO	**&- €**

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humimeter BMA

Professional moisture meter for determining the water content of biomass with optional display of bulk density and bone dry weight (tons/m³)

Applications:

For suppliers and operators of biomass heating plants, for measuring wood chips, barks, wooden pellets, elephant grass, wood shavings, sawdust and maize cobs

Features:

- Measuring range 5 to 70% water content, depending on the material
- Resolution: 0.1%
- Calibration accuracy to reference material: +/- 1.0%
- Bulk density compensated by integrated scale
- 12 liters sample volume
- Temperature can be set to °C or °F as required
- Infrared sample temperature measurement
- Automatic temperature compensation
- Temperature range for measuring: 0-50°C / 32 to 122°F
- Measurement within seconds without prior treatment of samples
- Manual saving of results, datalog for 10,000 logs with measuring point report
- Power supply: 100-240 VAC
- Large, well-lit LC display
- Robust housing
- Scope of supply: humimeter BMA with measuring chamber and power supply unit

Your benefits:

- High measuring range up to 70% water content, depending on the material
- Bulk density compensation by integrated scale
- Optional display of bulk density and bone dry weight (tons/m³)
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

Bioenergy

article no. 12800   & €

Accessories - possible add-ons:

article no. 13125	Display of bulk density and bone dry weight (tons/m³)	&€
article no. 12858	Integrated printer for humimeter BMA	&€
article no. 13100	External rechargeable battery for humimeter BMA	& €
article no. 12862	BMA USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	& €
article no. 12627	Bluetooth module pluggable, class 1 (up to 100 meters), module for humimeter devices with USB interface and appropriate software	& €
article no. 12318	ISO measuring device check for humimeter BMA, BM1 and BM2, test medium	&€
article no. 10600	Factory calibration certificate, protocol documenting the adjustment at delivery of material moisture meters	& €
article no. 11217	Laboratory analysis for preparation of a calibration curve for a new material for humimeter devices	& €

humimeter BM2 Biomass moisture meter

Applications:

Highly accurate moisture meter due to automatic bulk density compensation for the quick determination of water content of wood chips, barks, wooden pellets, elephant grass, wood shavings, sawdust and maize cobs, for suppliers and operators of biomass heating plants

Features:

- Measuring range 5 to 50% (60%) water content, depending on the material
- Resolution 0.5%
- Calibration accuracy to reference material +/- 1.5%
- Bulk density compensated by using a scale
- 13 liters sample volume
- Temperature can be set to °C or °F as required
- Automatic temperature compensation
- Temperature range for measuring: 0 to +40 °C / 32 to 104°F
- Measurement within seconds without prior treatment of samples
- Sample temperature measurement
- Hold function, manual saving of results, datalog for 10,000 logs with measuring point report
- Large, well-lit LC display
- Robust stainless housing
- Customer calibration function for special products
- Integrated online function for data transfer
- Supplier's data management
- Scope of supply: humimeter BM2 with USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC, plastic bucket and batteries
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request
- Required accessories: digital scale 10,000g

Scale has to be ordered separately

In addition to all functions of the BM1, the BM2 provides:

Online function for data transfer
Integrated printer connection
Customer calibration function for special products
humimeter USB data interface module with Log-Memorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC

Bioenergy

article no. 11910

€ &

Accessories - possible add-ons:

article no. 11656	Digital scale 10,000g incl. 6 batteries and 220V power supply unit	**& €**
article no. 11733	Thermo printer runs by battery, industrial model, portable	**& €**
article no. 11737	Set for determining the bulk density of wood chips and similar products with bone dry weight calculation tool for MS Excel	**& €**
article no. 10600	Factory calibration certificate, protocol documenting the adjustment at delivery of material moisture meters	**& €**
article no. 12627	Bluetooth module pluggable, class 1 (up to 100 metres) module for humimeter devices with USB interface and appropriate software	**& €**
article no. 12318	ISO measuring device check for humimeter BMA, BM1 and BM2, test medium	**& €**
article no. 12297	Entry of an existing characteristic curve in a humimeter device e.g.. shredder, short rotation and logging debris wood chips characteristic curve	**& €**
article no. 11217	Laboratory analysis for preparation of a calibration curve for a new material for humimeter devices	**& €**

humimeter BM1 Biomass moisture meter

Applications:

Highly accurate moisture meter due to automatic bulk density compensation for the quick determination of water content of wood chips, barks, wooden pellets, elephant grass, wood shavings, sawdust and maize cobs, for suppliers and operators of biomass heating plants

Features:

■ Measuring range 5 to 50% (60%) water content, depending on the material

■ Resolution 0.5%

■ Calibration accuracy to reference material +/- 1.5%

■ Bulk density compensated by using a scale

■ 13 liters sample volume

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

■ Automatic temperature compensation

■ Temperature range for measuring: 0 to +40 °C / 32 to 104°F

■ Measurement within seconds without prior treatment of samples

■ Sample temperature measurement

■ Hold function, manual saving of results, datalog for 10,000 logs with measuring point report

■ Large, well-lit LC display

■ Robust stainless housing

■ Scope of supply: humimeter BM1, plastic bucket and batteries

■ Required accessories: digital scale 10,000g

Scale has to be ordered separately

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Your benefits:

■ Very quick and accurate measurement due to sample volume of 13 liters

■ Bulk density compensated by using a scale

■ High measuring range up to 60% water content

■ Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

article no. 11907   **&   €**

Accessories - possible add-ons:

article no. 11656	Digital scale 10.000g with batteries and 220V power supply unit	**& €**
article no. 11737	Set for determining the bulk density of wood chips and similar products with bone dry weight calculation tool for MS Excel	**& €**
article no. 10600	Factory calibration certificate, protocol documenting the adjustment at delivery of material moisture meters	**& €**
article no. 12318	ISO measuring device check for humimeter BMA, BM1 and BM2, test medium	**& €**
article no. 12297	Entry of an existing characteristic curve in a humimeter device e.g.. shredder, short rotation and logging debris wood chips characteristic curve	**& €**
article no. 11217	Laboratory analysis for preparation of a calibration curve for a new material for humimeter devices	**& €**

humimeter BL2
Universal biomass water content moisture meter

Applications:

Combined measuringinstrument for insertion probe for wood chips, ram electrode for round timber and split logs or special probe.
For measuring round timber, split logs, wood chips, sawdust, wooden pellets, hay and straw bales.

Features:

- Measuring range: depending on the sensor up to 60% water content (depending on the material)
- Resolution: depending on the sensor
- Automatic temperature compensation
- Temperature measurement range: depending on the sensor
- Temperature can be set to °C or °F as required
- Measurement within seconds
- Hold function, manual saving of results, datalog for 10,000 logs with measuring point report
- Supplier´s data management
- Large, well-lit LC display
- Scope of supply: humimeter BL2 with rubber protection cover and batteries
- Required accessories: measuring probes

  Selectable measuring probes: article no. 12518, 12520 or 12521 (in connection with article no. 12520)

Measuring probes have to be ordered separately

Your benefits:

- High measuring range up to 60% water content (depending on the material)
- Different measuring probes for measurements up to a depth of 1 meter available
- Quality control and documentation everywhere on site
- Automatic averaging
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

Bioenergie

article no. 12109   **€**

Accessories - possible add-ons:

article no.		description	price
article no. 12518		BL2 insertion probe for wood chips, 1 meter length, with exchangeable measuring head, for determination of water content of wood chips, wooden pellets and sawdust; measuring range wood chips 10 - 50% water content, wooden pellets 11 - 20% water cotent, sawdust 14 - 50% water content	**& €**
article no. 12520		BL2 hammer (ram electrode) with 2 meter cable, for determination of water content of round timber and split logs, measuring range 8 to 60% water content, depending on the type	**& €**
article no. 12521		Set of tips for measuring hay and straw bales, for mounting at BL2 hammer article no. 12520:	**& €**
article no. 12278		humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	**& €**
article no. 12540		Wooden case for humimeter BL2 (for humimeter BL2 and all accessories)	**& €**
article no. 11929		Alternative to wooden case: plastic case (for humimeter BL2 and the following accessories: 12520, 12521)	**& €**
article no. 11733		Thermo printer runs by battery, industrial model, portable	**& €**
article no. 12308		Test block for humimeter FL1, FL2, BLL, BL2, WLW, BLW, SLW and BLO	**& €**
article no. 12472		Measuring head for humimeter BLL and BL2 (spare part)	**& €**

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humimeter BLL
Wood chips moisture meter with insertion probe

Applications:

Moisture meter with insertion probe of 1 meter length for determination of water content of wood chips with datalog.

Features:

■ Length of insertion probe: 1 meter

■ Measuring range 10% to 50% water content (represents 100% wood moisture),
  depending on the material

■ Resolution 0.5%

■ Calibration accuracy to reference material +/- 2.5%

■ Sample temperature measurement

■ Automatic temperature compensation

■ Temperature range for determination of water content 0 to + 40°C / 32 to 104°F

■ Temperature measuring range – 10 to + 80°C / 14 to 176°F

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

■ Measurement within seconds without prior treatment of samples

■ Hold function, manual saving of results, datalog for 10,000 logs with measuring point report

■ Supplier´s data management

■ Large, well-lit LC display

■ Scope of supply: humimeter BLL with rubber protection cover, grab bar made of steel and
  batteries

Your benefits:

■ Convenient determination of water content and temperature of deeper layers

■ The insertion probe is directly mounted at the measuring instrument, so that there is no risk of breaking cables

■ Conversion of wood moisture into water content

■ Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

■ Bulk pack: 10 % special discount for an order of a bulk pack of 5 units

Bioenergy

article no. **12029** humimeter BLL
            for determination of water content of wood chips   **€**

article no. **12486** humimeter BLL
            for determination of water content of peat   **€**

Accessories - possible add-ons:

article no.	Description	Price
article no. 12278	humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	**& €**
article no. 12467	Extension piece for insertion probe of humimeter BLL, mountable optionally, length 1 meter	**R €**
article no. 11733	Thermo printer runs by battery, industrial model, portable	**€**
article no. 12092	Wooden case for humimeter	**R €**
article no. 12308	Test block for humimeter FL1, FL2, BLL, BL2, WLW, BLW, SLW and BLO	**& €**
article no. 12472	Replacement tip (measuring head) for humimeter BLL and BL2	**& €**

FS_200 HT Wood chips moisture tester

Applications:
Portable and quick measuring instrument for wood chips. Optimal quality control for storing wood chips.

Features:

■ Measuring range up to 35% water content

■ Resolution 1% water content

■ Measuring depth max. 200mm

■ Calibration accuracy to reference material: +/-4%

■ Automatic temperature compensation

■ Measurement within seconds

■ Operating temperature range +5°C to + 35°C / 41°F to 95°F

■ Dimensions 100 x 140 x 310 mm

■ With plastic case

Your benefits:

■ Simple handling of moisture tester, small, handy, applicable everywhere on site

article no. 10743 **€**

FS_180 HT Wood chips moisture tester

Applications: see FS_200 HT Wood chips moisture tester

Differences to FS_200 HT:

■ Measuring range up to 30% water content

■ Measuring depth max.180mm

■ Calibration accuracy to reference material: +/-5%

■ Without plastic case

Your benefits:

■ Simple handling of moisture tester, small, handy, applicable everywhere on site

article no. 12140 **€**

Bioenergy

device	resolution	calibration accuracy	measuring range	customer calibration	sample quantity	scale	temperature display	memory	PC software + online function
FS_200 HT	1.0%	4.0%	8 - 35%		20 cm				
BLW	0.1%		10 - 60%	on request			x	x	optional
WLW	0.1%		7 - 150% wood moisture				x	x	optional
BLL	0.5%	2.5%	10 - 50 %		min. 20 liters		x	x	optional
BL2	0.1%/0.5%	see sensor	see sensor				x	x	optional
BM1	0.5%	1.5%	5 - 50% (60%)		13 liters	x	x	x	
BM2	0.5%	1.5%	5 - 50% (60%)	x	13 liters	x	x	x	x
BMA	0.1%	1.0%	5 - 70 %		12 liters	x	x	x	optional
BP1	0.1%	0.5%	3 - 20 %		280 g	x	x	x	optional
BLO sensor	0.5%	1.5%	10 - 55%	on request			x	x	x
BLO universal sensor	0.5%	1.5%	2 - 60%	x			x	x	x

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humimeter WLW
Wood moisture meter

NEW

Applications:
Due to its high measuring range (up to 150% wood moisture) and its high hammering depth ideal instrument for professional applications for sawmills, carpentries and timber construction companies

Features:
- Measuring range 7% to 150% wood moisture, dependent on the wood type
- Resolution 0.1 %
- Automatic temperature compensation
- Temperature can be set to°C or °F as required
- Measurement within seconds without prior treatment of samples
- Hold function, manual saving of results, datalog for 10,000 logs with measuring point report
- Supplier´s data management
- Large, well-lit LC display
- Scope of supply: humimeter WLW with rubber protection cover and batteries
- Required accessories: measuring probes

  Selectable measuring probes: article no. 12846, 12847 or 12630

Measuring probes have to be ordered separately

Your benefits:
- Quality checks and documentation on site
- Automatic averaging
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request
- Bulk pack: 10 % special discount for an order of a bulk pack of 5 units

Bioenergy

article no. 12626

€

Accessories - possible add-ons:

article no. 12846		SET WLW hammer (ram electrode) incl. BNC cable, with measuring tips and plastic case	& €
article no. 12847		WLW hand electrode with cable (cable article no. 12881 required)	& €
article no. 12881		BNC connection cable Ø4mm, 100cm length	& €
article no. 12630		WLW hammer (ram electrode) with BNC cable, without measuring tips	& €
article no. 11929		Plastic case for humimeter WLW	& €
article no. 12278		humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	& €
article no. 12146		Set of 20 replacement tips for measuring electrodes, without insulation, 40mm long	& €
article no. 11775		Set of 20 replacement tips for measuring electrodes, without insulation, 60 mm long	& €
article no. 11482		2 replacement tips for measuring electrodes, insulated, 60 mm long	& €
article no. 12308		Test block for humimeter FL1, FL2, BLL, BL2, WLW, BLW, SLW and BLO	& €

humimeter BLW
Round timber and split logs moisture meter with ram electrode

best in test

Applications:
Due to its high measuring depth and its high measuring range (up to 60% water content) ideal for operators of biomass heating plants or suppliers resp. buyers of round timber and split logs for professional billing

Features:
- Measuring range 10 to 60% water content (represents 150% wood moisture), depending on the material
- Resolution 0.1%
- Temperature can be set to °C or °F as required
- Hold function, manual saving of results, datalog for 10,000 logs with measuring point report
- Automatic temperature compensation
- Large, well-lit LC display
- Measurement within seconds without prior treatment of samples
- Scope of supply: humimeter BLW with rubber protection cover, ram electrode, measuring electrodes, plastic case and batteries

Your benefits:
- High measuring range up to 60% water content, represents 150% wood moisture
- Reduces plant breakdowns
- Quality checks and documentation on site
- Conversion of wood moisture into water content
- Automatic averaging
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

Bioenergy

article no. 11603   **€**

Accessories - possible add-ons:

article no. 12278	humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	& €
article no. 11733	Thermo printer runs by battery, industrial model, portable	& €
article no. 12146	Set of 20 replacement tips for measuring electrodes, without insulation, 40mm long	& €
article no. 11775	Set of 20 replacement tips for measuring electrodes, without insulation, 60 mm long	& €
article no. 11482	2 replacement tips for measuring electrodes, insulated, 60 mm long	& €
article no. 11828	BLW hammer (ram electrode) with BNC cable, without measuring tips	& €
article no. 12308	Test block for humimeter FL1, FL2, BLL, BL2, WLW, BLW, SLW and BLO	& €

humimeter BP1 Pellets moisture meter

Applications:

Measuring instrument for quality control in manufacturing, temporary storage and reception inspection of wood pellets as well as special pellets (thistle, straw, rape, elephant grass, etc).

Features:

■ Measuring range 3 to 20% water content

■ Resolution 0.1%

■ Calibration accuracy to reference material +/-0.5 %

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

■ Hold function, manual saving of results, datalog for 10,000 logs
  with measuring point report

■ Supplier`s data management

■ Automatic temperature compensation

■ Large, well-lit LC display

■ Measurement within seconds without prior treatment of samples

■ Robust stainless housing

■ Scope of supply: humimeter BP1 with rubber protection cover,
  digital scale, plastic case, measuring cup and batteries

Your benefits:

■ Measurement within seconds

■ Datalog function for measurement values and supplier´s data

■ Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

article no. 11496   **€**

Accessories - possible add-ons:

article no.12278	humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	**€**
article no.11733	Thermo printer runs by battery, industrial model, portable	**€**
article no.11758	ISO measuring device check for FS2/FS3/FS4/BP1, test medium and standard weight	**€**

humimeter BLH moisture meter for shavings

Applications:

Determination of water content by a 400 ml sample with sample temperature
measurement for beech, birch, oak, spruce, pine, poplar.
Further species on request

article no. 12310   **€**

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LabDry - Automatic system for the determination of water content

Applications:

Simplifies the moisture measurement of extremely wet wood chips and special materials via intelligent software solution

- PC software package incl. analysing software and data archive
  (PC not included)
- hand scanner with USB interface
- 100 barcode labelled aluminium bowls 0.7 liter
  (Scale and drying chamber selectable separately, not included)

For details see chapter „material"

article no. 12176   €

humimeter universal material moisture transmitter

article no. 12849   Measuring range and temperature range: dependent on the sensor,   €
for operation external resp. customer specific sensor and calibration required.
Power supply 24VDC (15 to 29VDC), automatic temperature compensation,
large, well-lit LC display, analogue outputs 4-20mA for water content, Optional
optional for extra charge: analogue output for temperature
Sensor on request

Bioenergy

Accessories - possible add-ons:

article no. 11217	Laboratory analysis for preparation of a calibration curve for a new material for humimeter devices	€
article no. 12297	Entry of an existing characteristic curve in a humimeter device	€

humimeter wood chips moisture transmitter

article no. 12199   Wood chips moisture transmitter for the determination of water content of wood   €
chips classes P16 to P45, incl. sensor connector
Measuring range 10 to 50% water content (corresponding to 100% wood
moisture), calibration accuracy to reference material +/- 5%.
For installation in a screw conveyor, close contact of material to the sensor
measuring window is essential. Power supply 24VDC (15 to 29VDC),
automatic temperature compensation, temperature range for measuring
+5 to +40°C / 41 to 104°F, analogue outputs 4-20mA for water content,
scaling (4-20mA) 0-80% = 0.2mA/%
Optional for extra charge: analogue output for temperature measurement,
display and keyboard

article no. 12234   Wood chips moisture meter for the determination of water content of wood   €
chips of classes P16 to P45,
in high temperature construction, +5 to + 85°C / 41 to 185°F

Accessories - possible add-ons:

article no. 12327	Analogue output for temperature measurement Sample temperature measurement -10°C to +70°C / 14 to 158°F (with high temperature construction +5 to + 85°C / 41 to 185°F) temperature scaling (4-20mA) 0.2mA/°C	€
article no. 12426	Display with keyboard in the housing for wood chips moisture transmitter	€
article no. 12308	Test block for humimeter FL1, FL2, BLL, BL2, WLW, BLW, SLW and BLO	€

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humimeter BLO Online measuring system

Applications:

Online analysing device for the determination of water content of wood chips and futher materials with adapted external sensors.

Features:

- Measuring range: see sensor
- Temperature range for determination of water content: see sensor
- Sample temperature measurement
- Automatic temperature compensation
- Temperature can be set to °C or °F as required
- Datalog for 10,000 logs with measuring point report
- Supplier´s data management
- Large, well-lit LC display
- Casing protection class IP54
- Sensors specifically adapted to the sensor
- Power supply: 24VDC
- 2 analogue outputs 4 - 20 mA for water content and temperature
- Optional: 2 relay outputs for water content
- Required accessories: sensor

  Selectable sensors: article no. 12122, 12470 or 12477

Bioenergy

Your benefits:

- Simple determination of water content and temperature of your material
- Ready calibrated system (standard sensor)
- Can be extended up to 32 material types in the desired language
- Automatic averaging
- Integrated datalog
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

article no. 12089   €

article no. 12477

article no. 12122

Sensors have to be ordered separately

Accessories - possible add-ons:

article no. 12122	BLO wood chips sensor for installation in a screw conveyor Measuring range: 10 to 55% water content (represents 120% wood moisture) Resolution 0.5 %, Temperature measuring range –10 to +70°C / 14 to 158°F, temperature range for determination of water content 0 to +70°C / 32 to 158°F, Required minimum compacting pressure 20N/dm², Additionally applicable for wood shavings, chopped straw and miscanthus, further materials on request With 5 meter cable for connecting to BLO (art. no. 12089)		€
article no. 12470	BLO wood chips sensor with compressing construction for assembly at places with low compacting pressure Measuring range: 10 to 55% water content (represents 120% wood moisture) Resolution 0.5 %, Temperature measuring range –10 to +70°C / 14 to 158°F, temperature range for determination of water content 0 to +70°C / 32 to 158°F, Required minimum compacting pressure 20N/dm², Additionally applicable for wood shavings, chopped straw and miscanthus, further materials on request With 5 meter cable for connecting to BLO (art. no. 12089)		€
article no. 12477	BLO Universal sensor for wood chips, pellets, sawdust and further materials Measuring range: 2 to 60% water content (represents 150% wood moisture) Temperature measuring range –10 to +70°C / 14 to 158°F, temperature range for determination of water content 0 to +70°C / 32 to 158°F, further materials on request With 5 meter cable for connecting to BLO (art. no. 12089)		€
article no. 12215	BLO Option 115-230VAC power supply		- €
article no. 12321	Data interface module RS 485 with 2D PMCS measuring data recording and analysing software on PC - interface RS232 (article no. 12243) required		- €
article no. 12243	RS232 interface for humimeter BLO		- €
article no. 12214	Relay contacts for BLO		- €
article no. 12308	Test block for humimeter FL1, FL2, BLL, BL2, WLW, BLW, SLW and BLO		- €

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LabDry- Automatic system
for the determination of water content

LabDry - Automatic system for the determination of water content with calibrated scale with PC interface, moisture measurement of all products according to DIN kiln-drying method. Measuring system with hand scanner, PC evaluation software and labelled aluminium bowls

- PC software package incl. analysing software and data archive (PC not included)
- hand scanner with USB interface
- 100 barcode labelled aluminium bowls 0.7 liter
Menu languages: English, German, Italian, Spanish, others on request

Scale and drying chamber selectable separately, not included!

article no. 12176

€

Accessories - possible add-ons:

article no. 12322	Drying chamber 115l with strong air turbine for determination of water content of all products using the DIN kiln-drying method. Useable space capacity 115 liter, for a maximum of 70 samples at the same time, in 3-shift operation 210 samples a day possible. New revolutionary preheating chamber, simple manageable operating elements, extremely low energy consumption, easy-care interior space, microprocessor PID control with LED display, ventilation flap adjuster and exhaust pipe with a diametre of 50 mm, nominal temperature up to 300°C, nominal voltage 50/60 HZ/230 Volt, Delivered with clock timer 0 - 99 hours, temperature limiter (TWB) class 2, 2 chromed drawers	€
article no. 12913	plug-in grate for drying chamber 115 liter (article no.12322), 1 unit	€
article no. 12324	Drying chamber 53l with strong air turbine for determination of water content of all products using the DIN kiln-drying method, for a maximum of 20 samples at the same time	€
article no. 12328	Drying chamber 240l with strong air turbine for determination of water content of all products using the DIN kiln-drying method, for a maximum of 112 samples at the same time	€
article no. 12325	Drying chamber 40l without air circulation turbine for determination of water content of all products using the DIN kiln-drying method, for a maximum of 16 samples at the same time	€
article no. 12286	Precision scale 1000g / 0.01g; with PC interface incl. datalink cable	€
article no. 12499	Precision scale 3500g / 0.01g; with calibration permission and calibration certificate, PC interface incl. datalink cable	€
article no. 12343	Precision scale 6500g / 0.01g; with PC interface incl. datalink cable incl. calibration	€
article no. 12198	Set of 100 units of barcode labelled aluminium bowls 0.7 liter; 197x105x49mm	€
article no. 12365	Set of 20 units of barcode labelled aluminium bowls 2.2 liter; for coarse wood chips G100	€
article no. 12364	Upgrading of LabDry software: customer-specific report page	€

Material

LM 5 Portable leather moisture meter

Applications:

Leather moisture meter for finished leathers

Features:

- Measuring range 6 to 20% water content

- Measuring depth 5mm

- Leather selection via 6-step switch

- Automatic temperature compensation

- LC display 3-digit

- Scope of supply: LM5 with protective rubber housing, wooden case, test plate and 9V battery

Your benefits:

- Very easy to handle

- Quick and highly accurate measurement using a non-destructive method

- Small, handy, accurate, in-site application possible wherever needed

- Quick and cost saving moisture measurement

- High long-term stability and repeat accuracy

article no. 10018   **€**

Accessories - possible add-ons:

article no. 10600	Factory calibration certificate, protocol documenting the adjustment at delivery of material moisture meters	**€**

TIP:

Especially for small, packed or sewed finished leather products we recommend the humimeter RH5. For details please see **chapter „Paper".**

humimeter SLW

Moisture meter for the determination of water content of textiles, natural materials, synthetics and yarn

Features:

- Measuring range 0.3% to 26% water content, dependent on the type

- Resolution 0.1% water content

- Sample temperature measurement, automatic temperature compensation

- Measurement within seconds without prior treatment of samples

- Hold function, manual saving of results, datalog for 10,000 logs with measuring point report

- Large, well-lit LC display

- Scope of supply: humimeter SLW, measuring probes 60mm, batteries and plastic case

€

Accessories - possible add-ons:

article no. 12278	humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	**€**
article no. 11733	Thermo printer runs by battery, industrial model, portable	**€**

Material

humimeter UNIVERSAL material moisture meter

Applications:

humimeter universal material moisture meter for special materials

Features:

- Measuring range 0% to max. 100%,dependent on the material, resolution: 0.1%,/0.5°C, operating temperature 0 to +40°C / 32 to 104°F
- Calibration of up to 30 different sorts by laboratory analysis (article no. 11217) possible. Calibration function for calibration of new material types possible.
- Automatic temperature compensation, programmable customer calibration curves
- Temperature can be set to °C or °F as required, Hold function, auto datalog and manual saving of results, datalog for 10,000 logs with measuring point report, large, well-lit LC display
- Scope of supply: humimeter device with rubber protection cover and batteries

example illustration

article no. **12502** humimeter **M50** moisture meter with roll sensor, measuring depth 50mm   **€**

article no. **12503** humimeter **M05** moisture meter with plate sensor, measuring depth 5mm   **€**

Accessories - possible add-ons:

article no. 10615	Laboratory analysis - preliminary testing of measurability of humidity resp. water content of a provided sample	€
article no. 11217	Laboratory analysis for preparation of a calibration curve for a new material for humimeter devices	€
article no. 12297	Entry of an existing characteristic curve in a humimeter device	€

FS_3 MM_X road salt moisture meter

Applications:

For road salt of coarse or fine structure. Basic configuration with plate sensor

Features:

- Measuring range 0% to max. 3%
- Measuring depth plate sensor 30mm
- Resolution: 0.01% water content; 0.5°C temperature
- Measurement within seconds without prior treatment of samples
- Datalog function: Saving of measuring data with pressing just one button
- Saving of measuring date
- Supplier´s data management
- Compatible with PC and printer via RS232 interface
- Up to 16 different sorts calibrateable
- Calibration of new sorts directly by the customer
- Automatic temperature compensation
- Scope of supply: FS_3 MM_X with wooden case, proof plate and batteries

Material

article no. 11332   **€**

Accessories moisture meter and analysis scale G_100

article no. 12153	Moisture meter and analysis scale G_100, measuring/weighing range 120g, resolution 0.001g for small and unknown resp. fluid, pasty material not calibrateable with humimeter devices. Preliminary testing of material and measuring guidance for one material type. Display of %moisture, %dry mass, 0.01% in ATRO° or grams. RS 232 data output	€

humimeter GF2 Building moisture meter

Applications:

Professional building moisture meter

for building moisture, air humidity, indoor climate, dew point, equilibrium moisture content, air and surface temperature as well as long-term recording of climate data, incl. material moisture sensor.

Optionally available external air humidity and infrared temperature sensors, PC software for data archiving and graphic display of climate data

Features:

- Measuring range building moisture: dependent on the material
- Resolution: 0.1% water content
- Measuring range air humidity 0-100 % r.h.
- Infrared temperature measurement -25 to +125°C / -13 to 257°F
- Measuring area of infrared sensor: 16 cm diameter at a distance of 1 meter
- Measurement of CO_2 up to 5000ppm
- Temperature can be set to °C or °F as required
- Automatic temperature compensation
- Measurement within seconds without prior treatment of samples
- Hold function, manual saving of results, datalog for 10.000 logs with measuring point report
- Large, well-lit LC display
- Scope of supply: humimeter GF2 with batteries
- Dimensions 147 x 75 x 30 mm, weight 265g (incl. batteries)

External sensors have to be ordered separately

Required accessories: measuring probes, selectable according to individual requirements:

article no. 13140   **€**

Configuration for professionals

Recommended configuration for painters article no. 13140, 12514, 12032, 12278 and 12512
Recommended configuration for master builders article no. 13140, 12630, 13141, 13011, 13012, 12514,12513, 12278 and 12512
Recommended configuration for building surveyors article no. 13140, 13141, 12847, 13011, 13012, 12630, 12514, 12032, 13159, 12964, 12513, 12278 and 12512
Recommended configuration for carpenters article no. 13140, 13141, 12847, 12630, 13011, 13159, 12278 and 12512
Recommended configuration for interior works article no. 13140, 13141, 12847, 12514, 12032, 12278 and 12512
Recommended configuration for restoration and dehumidification article no. 13140, 12630, 13141, 13011, 13012, 13159, 12513, 12278 and 12512
Recommended configuration for caretakers article no. 13140, 13141, 12847, 12514, 12032, 12513, 12964, 12278 and 12512
Recommended configuration for bottomers article no. 13140, 13141, 12847, 12514, 12032, 12278 and 12512

Buildings

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Accessories - possible add-ons:

article no. 12278		humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	**€**
article no. 12514		Air humidity and temperature sensor for humimeter GF2	**€**
article no. 12032		Humidity and temperature sensor with 2 meters connecting cable	**€**
article no. 12004		LF_TB 120 Precision humidity and temperature plug-in sensor for material moisture Sensor head 0.3 m stainless tube with steel sinter cap and 2 meters connecting cable	**€**
article no. 13224		Extension cable of 8 meters length for humimeter RH2 and GF sensors	**€**
article no. 13066		Integrated sensor for parquet floor GF Measurement of relative humidity and temperature	**€**
article no. 12857		Cable for integrated sensor for parquet floor GF for connection of the integrated sensor for parquet floor GF (article no. 13066) to a humimeter device, cable length 2 meters	**€**
article no. 13159		Humidity and temperature sensor with Ø8mm plastic sensor tube Powered by RH2 resp. GF2, with 2 meters sensor cable, Suitable for measuring bush for floor screed (article no. 13160)	**€**
article no. 13160		Set of measuring bushes for floor screed Plastic bush for driving in a bore hole of a diameter of 12mm 20 bushes incl. plug and one hammering aid Suitable for humidity and temperature sensor (article no.13159)	**€**
article no. 12513		Non-contact infrared temperature sensor for humimeter GF2 Infrared temperature measurement -25 to +125°C / -13 to 257°F, Measuring area of infrared sensor: 16 cm diameter at a distance of 1 meter	**€**
article no. 12964		CO2 sensor for humimeter GF2 Measuring range: 0 to 5000ppm, accuracy (at 25°C and 1013mbar): < +/- 50ppm +3% of measuring value, operating temperature: -10 bis +60°C / 14 to 140°F, measuring interval: approx. 10 sec., dimensions: Ø28x108mm	**€**
article no. 13141		External conductance electronics for GF2 pluggable electronics box with 1 meter cable for connecting external conductivity sensors with BNC connector incl. connecting cable article no. 12881	**€**

Buildings

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Accessories - possible add-ons:

article no. 12847		humimeter hand electrode with 10 replacement tips 16mm and 10 replacement tips 23mm, For connection to humimeter GF2 article no. 13141 required!	€
article no. 13011		Pair of plug-in electrodes for determination of water content of hardened and set building materials With 10 measuring tips of each 40 and 60mm length. For connection to humimeter GF2 article no. 13141 required!	€
article no. 13012		Pair of flat electrodes, 300 mm length for determination of water content in floor screed resp. insulation, especially in boarder and floating joints. For connection to humimeter GF2, article no. 13141 required!	€
article no. 12881		BNC connecting cable Ø4mm , 100cm length (spare part)	€
article no. 12630		humimeter WLW hammer (ram electrode) with BNC cable, without measuring tips For connection to humimeter GF2 article no. 13141 required!	€
article no. 12146		Set of 20 replacement tips for measuring electrodes, without insulation, 40mm long	€
article no. 11775		Set of 20 replacement tips for measuring electrodes, without insulation, 60mm long	€
article no. 11482		2 replacement tips for measuring electrodes, insulated, 60mm long	€
article no. 12512		Plastic case for humimeter GF2	€
article no. 11929		Plastic case for humimeter BLW, WLW, BL2 and GF2	€
article no. 13051		Wall holder / anti-theft protection for GF2	€

Buildings

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humimeter RH5 Paper moisture meter

Applications:

Paper moisture meter for piles of paper. Also ideal for automatically monitoring the climate of printing rooms and paper stockrooms

Features:

■ Relative air humidity 0 to 100%, resolution 0.1% rh

■ humimeter RH5: Calibration 10 to 90% ±1.5% rh (at 25°C)

■ humimeter RH5.1: Calibration 10 to 90% ±2.0% rh (at 25°C)

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

■ Temperature -10 to +60°C / 14 to 140°F, resolution 0.1°C

■ Calibration ±0.3°C (at 25°C)

■ Dew point -55 to +60°C / -67 to 140°F, resolution 0.1°C

■ Sword sensor length 30 cm

■ Hold function, manual saving of results

■ Automatic datalog for 10,000 logs with measuring point report, supplier´s data management

■ Scope of supply: humimeter RH5 with rubber protection cover, wooden case and batteries

Your benefits:

■ Quick – cost saving - automatically documented

■ Rapid adjustment

■ Easy data storage at the portable moisture meter

■ Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

■ Bulk pack humimeter RH5: 10 % special discount for an order of a bulk pack of 10 units

■ Bulk pack humimeter RH5.1: 10 % special discount for an order of a bulk pack of 5 units

article no. 11494 **humimeter RH5**   **€**

article no. 11994 **humimeter RH5.1 without accessories**   **€**

Accessories - possible add-ons:

article no. 12278	humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	**R€**
article no. 12485	humimeter USB data interface module VERSION FOR RECHARGEABLE BATTERIES with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	**€**
article no. 12627	Bluetooth module pluggable, class 1 (up to 100 metres) module for humimeter devices with USB interface and appropriate software	**€**
article no. 11733	Thermo printer runs by battery, industrial model, portable	**€**
article no. 10072	Calibration equipment for sword sensor	**€**
article no. 10352	Certified calibration ampoules - set of 5, 50% r.h.	**€**
article no. 10005	Certified calibration ampoules - set of 5, 2 x 35% r.h., 1 x 50 % r.h., 2 x 80% r.h.	**€**
article no. 10451	Sword sensor holder for humimeter RH5 and RH6	**€**
article no. 10523	Tool for removing sword sensor holder for humimeter RH5 and RH6. Made of steel with wooden handle.	**€**
article no. 10403	Factory calibration certificate, protocol documenting the adjustment at delivery of air humidity moisture meters	**€**
article no. 11131	Checking the calibration of devices of humimeter RH, FS_3 and LF series per sensor	**€**

Paper/Board

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humimeter RH6 Paper moisture meter

Applications:

Paper moisture meter for piles of paper. Also ideal for automatically monitoring the climate of printing rooms and paper stockrooms.

Features:

- Relative air humidity 0 to 100%, resolution 0.1% rh

- Calibration 10 to 90% ±1.5% rh (at 25°C)

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

- Temperature -10 to +60°C / 14 to 140°F, resolution 0.1°C,

- Calibration ±0.3°C (at 25°C)

- Dew point -55 to +60°C / -67 to 140°F, resolution 0.1°C

- Absolute air humidity 0 to 130 g/m³, resolution 0.1g/m³

- Customer calibration function

- Hold function, manual saving of results, online function

- Automatic datalog for 10,000 logs with measuring point report

- Supplier´s data management

- Sword sensor length 30 cm

- Scope of supply: humimeter RH6 with rubber protection cover, humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC, wooden case and batteries

Your benefits:

- Temperature compensated paper and wood equilibrium moisture content, calibration curves for determination of water content

- Rapid adjustment

- Easy data storage at the portable moisture meter

- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

In addition to all functions of the RH5, the RH6 provides:

- Absolute air humidity 0 to 130 g/m³, resolution 0.1g/m³

- Temperature compensated paper and wood equilibrium moisture content

- Calibration curves for determination of water content

- Calibration curves for customer calibration

- Incl. humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC

article no. 11497 €

Accessories - possible add-ons:

article no. 12627	Bluetooth module pluggable, class 1 (up to 100 metres) module for humimeter devices with USB interface and appropriate software	€
article no. 11733	Thermo printer runs by battery, industrial model, portable	€
article no. 10072	Calibration equipment for sword sensor	€
article no. 10352	Certified calibration ampoules - set of 5, 50% r.h.	€
article no. 10005	Certified calibration ampoules - set of 5, 2 x 35% r.h., 1 x 50 % r.h., 2 x 80% r.h.	€
article no. 10451	Sword sensor holder for humimeter RH5 and RH6	
article no. 10523	Tool for removing sword sensor holder for humimeter RH5 and RH6. Made of steel with wooden handle.	€
article no. 10403	Factory calibration certificate, protocol documenting the adjustment at delivery of air humidity moisture meters	€
article no. 11131	Checking the calibration of devices of humimeter RH, FS_3 and LF series per sensor	€

Paper/Board

P2 Paper moisture meter

Applications:
Paper moisture meter mainly for kraft paper, packaging paper and paperboard

Features:

- Measuring range 3 to 10% water content
- Resolution 0.1%
- Automatic temperature compensation
- Automatic switch-off after approx. 90 seconds or in case of high exceedance of measuring range
- LC display 3-digit
- Dimensions 120 x 60 x 26mm
- Weight approx.160g
- Scope of supply: P2 with battery

Your benefits:

- Simple handling
- Quick and highly accurate measurement using a non-destructive method
- Small, handy, applicable everywhere on site
- Quick and cost saving paper measurement
- High long-term stability and repeat accuracy

article no. 12157   **€**

P2 Paper moisture meter   WITH ACCESSORIES

- Scope of supply:
  P2 with battery, rubber protection cover, wooden case and proof plate

article no. 10001

P4 Paper moisture meter   WITH ACCESSORIES

Applications:
Portable paper moisture meter, mainly for painted papers

Features:

- Measuring range 3 to 8% water content

Other features see P2 paper moisture meter with accessories

article no. 10299

Paper/Board

humimeter PM3
Paper moisture meter for determination of absolute water content at the roll with high measuring depth

Applications:
For receiving control of paper processors like printing houses, paper retailers and corrugated paper manufacturers.
Measuring instrument with large measuring depth for determining absolute water content at the stagnant, cool paper roll.
Applicable for paper, cardboard and pulp.
Non-destructive measurement through the packaging!
For measurements at the running roll the humimeter PM4 is essential!

Features:

■ Measuring range 1% to 25% water content, dependent on the type

■ Resolution: 0.1%

■ Measuring depth 50mm

■ Paper temperature: 0 to +60°C / 32 to 140 °F

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

■ Automatic temperature compensation

■ Measurement within seconds without prior treatment of samples

■ Hold function

■ Manual saving of results, auto datalog for 10,000 logs with measuring point report

■ Large, well-lit LC display

■ Scope of supply: humimeter PM3 with rubber protection cover, plastic case, proof plate and batteries

Your benefits:

■ Quick and highly accurate measurement using a non-destructive method

■ Simple handling

■ Small, handy, applicable everywhere on site

■ Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

article no. 12331   €

Accessories - possible add-ons:

article no. 12297	Entry of an existing characteristic curve in a humimeter device	€
article no. 11217	Laboratory analysis for preparation of a calibration curve for a new material for humimeter devices	€
article no. 12278	humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC	€
article no. 11733	Thermo printer runs by battery, industrial model, portable	€
article no. 10600	Factory calibration certificate, protocol documenting the adjustment at delivery of material moisture meters	€

Paper/Board

humimeter PM4

Paper moisture meter for determination of absolute water content at the roll with high measuring depth

Applications:

For paper manufacturers, with infrared temperature reading for measurements at warm, running paper rolls and receiving control of cooled rolls.

Applicable for paper, cardboard and pulp, with CUSTOMER CALIBRATION FUNCTION.

Features:

- Measuring range 1 to 25% water content
- Resolution 0.1%
- Measuring depth: 50mm
- Contact-free infrared temperature measurement with 90° optics
- Paper temperature for determination of water content: 0 to +80°C / 32 to 176°F
- Infrared temperature measurement –25 to +125°C / -13 to 257 °F
- Automatic temperature compensation
- Temperature can be set to °C or °F as required
- Measurement within seconds without prior treatment of samples
- Hold function
- Manual saving of results, auto datalog for 10,000 logs with measuring point report
- Large, well-lit LC display
- Scope of supply: humimeter PM4 with rubber protection cover, humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC, plastic case, proof plate, rechargeable batteries

In addition to all functions of the PM3, the PM4 provides:

- Infrared paperweb temperature measurement
- humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC
- Rechargeable batteries
- Accurate determination of paper roll temperature
- Higher accuracy of measuring results due to temperature compensation based on infrared temperature measurement

Your benefits:

- Quick and highly accurate measurement using a non-destructive method
- Simple handling
- Small, handy, applicable everywhere on site
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

article no. 12461

Accessories - possible add-ons:

article no. 12297	Entry of an existing characteristic curve in a humimeter device	€
article no. 11217	Laboratory analysis for preparation of a calibration curve for a new material for humimeter devices	€
article no. 12496	Laboratory analysis for preparation of a calibration curve for a new material for humimeter PM4 and conversion of absolute water content into relative paper moisture (max. 0 - 100%). Please indicate required measuring range!	€
article no. 11733	Thermo printer runs by battery, industrial model, portable	€
article no. 10600	Factory calibration certificate, protocol documenting the adjustment at delivery of material moisture meters	€
article no. 13055	Spare parts set for humimeter PM3/PM4: 2 pieces of sensing bows	€

Paper/Board

![humimeter.com SCHALLER GMBH logo]

humimeter RP5
recycling paper moisture meter

Applications:
Quick, easy and non-destructive moisture meter for detecting moisture in recycling paper bales.

Features:
- Measuring range 1% to max .50% water content, depending on the material
- Resolution 0.5%
- Paper temperature 0 to +40°C / 32 to 104°F
- Measuring depth: max. 500 mm
- Automatic temperature compensation
- Hold funtion, manual saving of results for 10,000 logs with measuring point report
- Supplier's data management
- Calibration function for calibrating specific material types resp. compressed densities
- Scope of supply: humimeter RP5 with rubber protection cover, humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC, factory calibration certificate, wooden case, proof plate, rechargeable batteries

Your benefits:
- Quick - cost-saving - automatically documented
- Rapid adjustment
- Easy data storage at the portable moisture meter
- Menu languages: English, German, Italian, French, Spanish, Russian and many others on request

article no. 12402 ⭐ **€**

Accessories - possible add-ons:

article no. 11733	Thermo printer runs by battery, industrial model, portable	**€**
article no. 12627	Bluetooth module pluggable, class 1 (up to 100 metres) module for humimeter devices with USB interface and appropriate software	**€**

Paper/Board

AP 500 recycling paper moisture meter

Applications:
Easy, quick and non-destructive moisture meter for detecting moisture in recycling paper bales.
Suitable for the measurement of pressed piles, rolls and pulp.

Features:
■ Measuring range 4% to 50% water content
■ Resolution 1%
■ Automatic temperature compensation
■ Paper selection via 6-step switch
■ Scope of supply: AP500 with wooden case and proof plate,
  factory calibration certificate and 9V battery

Your benefits:
■ Quick and accurate measurement using a non-destructive method
■ Simple handling
■ Handy, applicable everywhere on site

article no. 12156 ⭐   €

KLK_50 Climatic chamber with moisture monitoring and measuring system

Applications:
Completely airtight chamber which creates an atmosphere with controllable relative humidity. This allows the adaption of different materials to required conditions.

Features:
■ Analysing system for relative air humidity sensors
■ Display of moisture and target value
■ Control range 10 to 90% rh
■ Resolution and setting steps 0.1% rh
■ Power supply 230 VAC
■ Dimensions outside: 380x600x200mm, with viewing window
■ Optionally available with interface and data recording software

Your benefits:
■ Very quick balancing
■ Simple handling
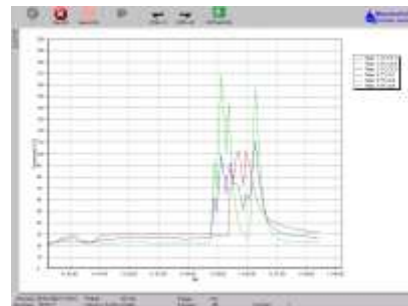■ Large viewing window
■ Separate suspension of samples

article no. 11134 ⭐

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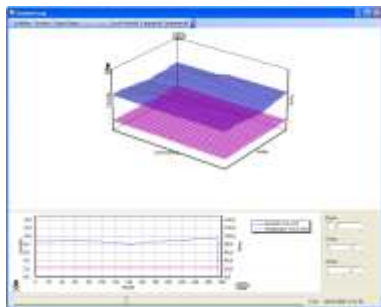
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Paper/Board

Online measuring system for paper and printing machines and corrugated board machines

Applications:

Sensors for measurement of water content and temperature of paper, board, corrugated board, compound systems in compact structure, for smooth refitting, with Moisture Control System. By means of traversing, moisture is measured across and along the paper web. A modern software with 3D illustration enables the documentation of measuring values and production data, which facilitates the evaluation of a complete paper roll at a glance.

article no. 12476	Moisture Control System MCS: Process automation and optimisation by continuous online moisture measurement, evaluation system for diverse moisture transmitters with visual display and setting options for process variables (type, grammage, desired moisture etc.)	⭐	€
article no. 10724	Application programme for MCS Programme and visualisation are specifically adapted to the customer	⭐	€
article no. 10855	MCS - Add-on fourfold input module for one sensor (in addition to article no. 12476)	⭐	€
article no. 10952	MF-P-HT paper moisture transmitter for online moisture measurement	⭐	€
article no. 10955	MF-S-HT corrugated paper moisture transmitter for online moisture measurement	⭐	€
article no. 11291	Paper guide roll set for MF-P-HT and MF-S-HT for fixed installations The paper is driven over 2 ball bearing rolls.	⭐	€
article no. 11322	Infrared online paper temperature measurement for installation at MF-P-HT paper guide roll set	⭐	€
article no. 10725	PMCS 3D PC measuring data recording software 3D illustration, 2D illustration; paper type and suppliers management; measuring data recording; analysation of saved data via 3D profile, long profile, width profile and measuring raw data, visualisation and saving on 3 configurable axes.	⭐	€
article no. 11400	PMCS 2D PC measuring data recording software Visualisation of measuring data via 2D illustration	⭐	€
article no. 11071	Sensor traversing unit 250 cm; for MF-P-HT and infrared temperature sensor	⭐	€
article no. 11691	Paper guide roll set for MF-P-HT for installation at sensor traversing unit	⭐	€

Implementing is offered separately based on individual requirements —
PLEASE ASK FOR ONLINE QUESTIONNAIRE!

Paper/Board

humimeter FS4.2 Universal material moisture meter with customer calibration function

Applications:

Universal material moisture meter with customer calibration function for granulate and powder with defined sample quantity and sample temperature measurement

Features:

- Resolution 0.1%
- Hectoliter compensated
- Sample temperature measurement
- Temperature can be set to °C or °F as required
- Automatic temperature compensation
- Measurement within seconds
- Hold function, manual saving of results, datalog for 10,000 logs with measuring point report
- Supplier's data management
- Customer calibration function
- Integrated online function
- Robust stainless housing
- With humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC, digital scale, plastic case, measuring cup and batteries

Your benefits:

- Very accurate measurement due to temperature and bulk density compensated measuring process
- Easy and user-friendly handling
- Online function for data transfer to a PC
- Integrated memory and printer connection
- Menus languages: English, German, Italian, French, Spanish, Russian and many others on request

article no. 12069   **€**

Extended accessories:

article no. 11733	Thermo printer runs by battery, industrial model, portable	**€**
article no. 11758	ISO measuring device check, test medium and standard weight	**€**
article no. 10600	Factory calibration certificate, protocol documenting the adjustment at delivery of material moisture meters	
article no. 11217	Laboratory analysis for preparation of a calibration curve for a new material for humimeter devices	**€**
article no. 12627	Bluetooth module pluggable, class 1 (up to 100 meters) module for humimeter devices with USB interface and appropriate software	**€**

B30 Concrete floor moisture meter

Applications:
Concrete floor moisture meter for hardened construction materials with smooth surface

Features:

- Measuring range 0 to 5% water content, dependent on the material
- Resolution 0.1%
- Measuring depth: 30 mm
- Automatic temperature compensation
- Material selection via 6-step switch
- Dimensions 60x130x30mm
- With protective rubber housing and 9V batteries.

article no. 10604   **€**

Hygroexpansivity (wet stretching) measuring machine

Hygroexpansivity (wet stretching) measuring machine
with moisture measurement-control system, for measuring paper stability at exposure of water and dampness

Features:

- Graphic display of the expansion of paper
- Display for moisture and selection of target value
- Control range 10 - 90% RH
- Resolution and setting steps 0.1%RH
- Power supply 220 Volt
- Optional with interface and recording software

article no. 12390   **Price on request**

humimeter FS4.1 Clearing sludge moisture meter

Applications:
Moisture meter with 260g sample quantity and sample temperature measurement for determination of moisture content of partly dried and fully dried sewage sludge granulate from a dried matter content of 45%
Very fast and accurate measurement for professional applications in municipal and industrial sewage plants

Features:

- Measuring range 0% to max. 55% water content , resolution 0.1% water content
- Display of dried matter content possible, customer calibration function
- Sample temperature measurement, Hold function, manual saving of results
- Integrated online function , large, well-lit LC display
- Measurement within seconds, robust stainless housing
- Scope of supply: humimeter FS4.1, digital scale, measuring cup, plastic case and batteries
- Optional: humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash incl. USB cable for PC, printer

article no. 12036   **€**