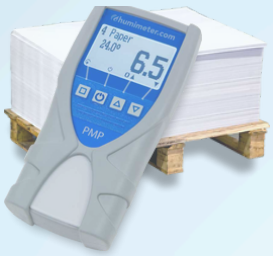
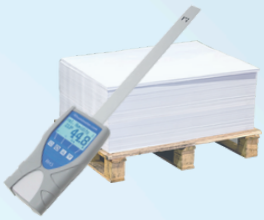
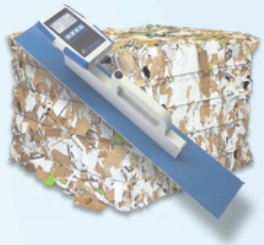
Schaller

Messtechnik / www.humimeter.com









HUMIMETER

Paper and Board







Climate / Environment | Foods | Bioenergy | Material | Buildings | Paper / Board

EXCLUSIVE DISTRIBUTOR :

LOCATION

LONCA MAK. SAN. TİC. A.Ş.

Ferhatpaşa Mah. Gazipaşa Cad. No:104A
34888 Ataşehir / İSTANBUL - TURKIYE
Phone:+90 216 505 05 55
www.ensim.com.tr / lonca@ensim.com.tr

WEB

6 % | 456 kg/m3 | -27,3 td | 0,64 aw | 51,9 %r.H. | 14,8 % abs | 100,4 g/m2 | 09 m/s | 4,90 Ugl | 163 ym | 23,2 °C | 78,8°F | 6,21% |

humimeter PMP

Handheld moisture meter for determining the absolute water content of paper and solid card- board at the stack or at the roll



Features:

- Quick and non-destructive measurement
- Measuring range 1% to 15% absolute water content, dependent on paper type
- Measuring depth: 20 mm
  20 standard calibration curves (extendable)
- Resolution: 0.1% water content
- Paper temperature: 0 to +50°C / 32 to 122 °F
- Temperature can be set to °C or °F as required
- Automatic temperature compensation
- Hold function, Auto datalog function
- Scope of supply: humimeter PMP, wooden case with proof plate, rubber protection cover and batteries

- Optimize maintenance times by detecting eventual moisture streaks in time!
- React to moisture variations quickly!
- Avoid manufacturing problems due to elongation and shrinkage!
- Check your products before shipping!
- Optimize your drying costs!
- Avoid flatness problems due to wave formation!
- Use a non-destructive measuring method!



Measuring procedure:

Switch on the instrument, select the right calibration curve (dependent on the paper density) and press the instrument onto the material being measured. The illuminated display immediately shows the measuring value. The humimeter PMP offers a data memory for up to 10,000 measuring values as well as the possibility to enter additional data such as batch number. For every saved measurement series, the device automatically calculates the average value. Via the optionally available USB interface, the measurement values can be transferred to a PC and via LogMemorizer® PC software the data can be archived, exported, processed or printed out.

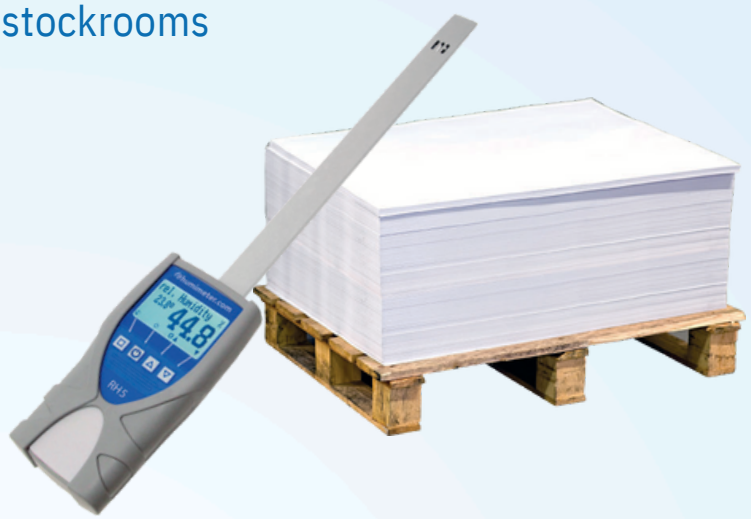
Accredited test laboratory:

Our test laboratory conforms to the requirements of the globally valid standard EN ISO/IEC17025:2007. In 2017, the laboratory has been certified for the determination of water content according to EN ISO 287: Paper and board - Determination of moisture content of a lot - Oven drying method. The requirements necessary for obtaining and preserving the accreditation ensure ma- ximum testing quality. Among others, the requirements include highest technical com- petence, a sophisticated and constantly improved quality management system and a



humimeter RH5 & RH6

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



humimeter RH5

Paper moisture meter for relative moisture

humimeter RH6

Paper moisture meter for relative and absolute moisture,temperature compensated paper and wood equilibrium moisture content, calibration curves for determination of water content



Features:

humimeter RH5

- 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
- Hold function, manual saving of results
  Automatic datalog for up to 10,000 logs with measuring point report
- Rapid adjustment
- Scope of supply: *humimeter* RH5 with rubber protection cover, wooden case and batteries

humimeter RH6

Additional functions:
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
Customer calibration function
cope of supply: *humimeter* RH6 with rubber protection cover, *humimeter* USB data interface module with Log-Memorizer measuring data recording and analysing software on USB flash drive incl. USB cable for PC, wooden case and batteries

Measuring procedure:
To determine the moisture in paper piles, the sword sensor is inserted into the paper stack and left there for a short conditioning time. The large, well-lit display shows the current moisture and temperature value. Via the integrated datalogger the measuring values can be stored and additional data can be added. The Autolog func- tion enables an automatic saving of measuring values in adjustable time intervals. To prevent a damage of the sword sensor in heavy paper stacks, a sword sensor holder and a tool for removing the sword sensor holder are available optionally. The *humimeter* USB data inter-face module offers the possibility to connect the device to a PC. Via the delivered LogMemorizer software the measuring values can be read off the device, addition information can be added, and the data can be archived, exported and processed.



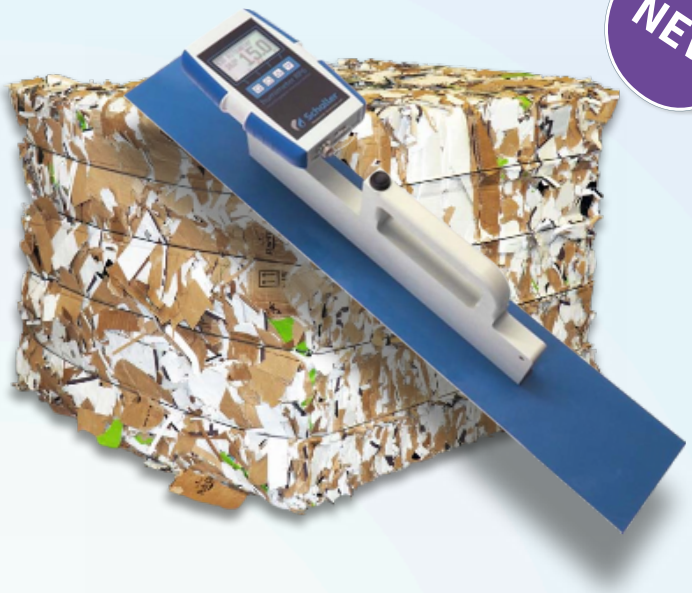
humimeter RP6

Moisture meter for the determination of moisture in recycling paper and for the detection of moisture spots in recycling paper bales. Expandable with optional air humidity and temperature sensor.

Easy, quick and non-destructive moisture meter for detecting moisture in recycling paper bales. Furthermore the humimeter RP6 can be connected with an air humidity and temperature sensor in order to measure environmental parameters and other paper key figures quickly and efficiently.

NEW





Measuring procedure:

Start your *humimeter* RP6 by pushing the black button on the handle of the device. Choose the right calibration curve (e.g. 350 recycling paper) and press the measuring plate against the recycling paper bale. The display immediately shows the water content and temperature. The measuring values can be stored at the *humimeter* RP6, additional information like supplier's data and notes can be added. The stored values can be sent to a PC if required. Furthermore the meas- uring results can be printed out on the spot via the optionally available portable thermo printer. For the determination of other relevant process parameters, a humidity and temperature sensor can be connected.



Features

- Measuring range: 1 to 50% water content (depending on the material)
- Resolution: 0.5% water content
- Measuring depth: max. 500mm
- Operation temperature: 0 to +50°C / 32 to 122°F
- Automatic temperature compensation
- Temperature can be set to °C or °F as required
- Large, well- lit LC- Display
- Measurement within seconds without prior treatment of samples
- Hold function, automatic datalog and manual saving for up to 10,000 logs with measuring point report
- Interface for the connection of external sensor
- Menu languages: English, German, Italian, French, Spanish, Russian, many other on request
- Protection class: IP64
- Scope of supply: *humimeter* RP6, *humimeter* USB data interface module with LogMemorizer measuring data recording and analysing PC software on USB flash drive incl. USB cable for PC, rechargeable batteries (Li-Ion 1950mAh) and plastic case

humimeter PMZ

Pulp moisture meter for absolute water content determination of pulp sheets in piles

Simple - precise - within seconds - non-destructive - portable

Portable measuring device for absolute water content de- termination of piled up pulp sheets.



Measurement and handling:
Turn on the measuring meter, select the cor- rect characteristic (dependent on the fibre type) and insert the meter into the pile. The measured result is immediately shown on the display. This allows to measure large quantities of cellulose / pulp in a very short time without removing single layers from the piles.



The device has a memory for up to 10,000 readings as well as the option to record addi- tional data, such as a charge number. The de- vice automatically calculates the average value for each saved measurement series. The meas- uring device has two robust electrodes, which have to be inserted into the pile. On the back of the device is a removable han- dle for easy use of the device. The optionally available USB interface enables you to transfer the measured results to a PC and archive, evaluate, export or print them us- ing the LogMemorizer PC software.



Features

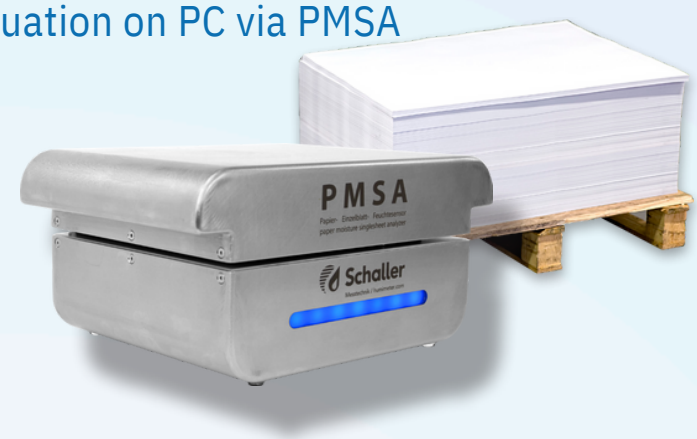
- Fast and non-destructive measurement
- Measuring range: 6% to 40% absolute water con- tent (material dependent)
- Resolution: 0,1% water content
- Pulp temperature: 0 to +50°C
- Selectable temperature in °C and °F
- Infrared temperature measurement
- Pulp - density range 450 - 900 kg/m³
- Can be used for sulphate and sulphite process
- For bleached and unbleached cellulose fibres
- 12 standard calibration curves (expandable) Automatic temperature compensation
- Manual memory for 10.000 measurements Dimensions: 575 x 75 x 46 mm
- Weight: 685g (with batteries)
- Measurement results within seconds
- Scope of supply: humimeter PMZ, handlebar, wood- en case, rubber protection and batteries Optional: humimeter USB data interface module with LogMemorizer data logger and analysis soft- ware on USB stick, portable thermo- printer, blue- tooth interface module

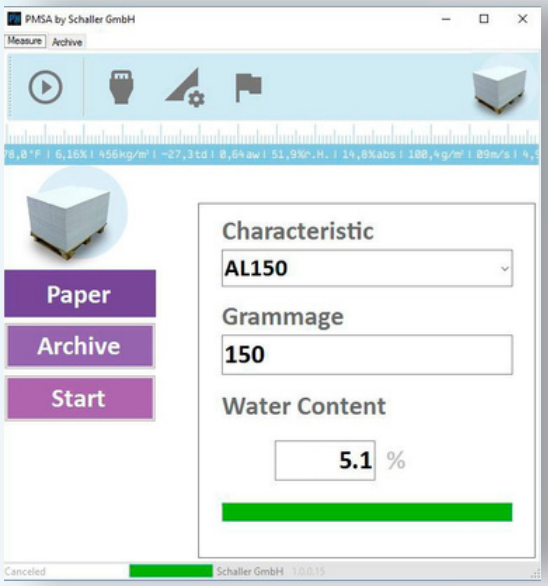
PMSA

At-Line laboratory analysing instrument for the determination of water content in single paper sheets. Evaluation on PC via PMSA Software

PMSA

single paper sheet moisture analyzer
At-Line moisture sensor with PC software for a quick non-destructive determination of water content of single paper sheets





Features:

- Measuring range: 1 to 20 % absolute paper moisture
- Resolution: 0.01 % water content
- Grammage range: 30 to 800 g/m²
- Maximum paper thickness: 0.8 mm (higher range on request)
- Automatic temperature compensation
- Minimum paper size: 180 x 180 mm
- Temperature range: +10 to +40 °C / 50 to 104 °F
- Protection class: IP30 • Dimensions: 274 x 202 x 128 mm
- PC software in English and German • Power supply and connection to PC: 5VDC (USB mini B) • Scope of supply: PMSA moisture sensor incl. PMSA software on USB flash drive and USB cable
- PC not included • Optional: weight scale for paper

Measuring procedure:
After installing the PMSA software on your PC, con- nect the PMSA moisture sensor to the PC via USB cable. Select the paper type to measure in the soft- ware and click the start button. To ensure a maxi- mum of accuracy, the system performs a self-cali- bration of the sensor before each measurement. When the self-calibration is completed, insert the paper sheet to measure. After a few seconds the determined water content is shown on the screen. Now additional data like a batch number can be added and the measuring values can be saved in a database. The measuring data can also be expor- ted (csv, html, xls) or printed out. Via the software, further paper types can be created and calibrated easily.



Accredited test laboratory:

Our test laboratory conforms to the requirements of the globally valid standard “ÖVE/ ÖNORM EN ISO/IEC 17025:2007”. In 2017 the laboratory was certified as an accredited test laboratory for the determination of water content according to norm “EN ISO 287: Paper and board - Determination of moisture content of a lot - Oven drying method”. The requirements necessary for obtaining and preserv- ing the accreditation ensure maximum testing quality.

humimeter PM5

Paper moisture meter for determination of absolute water content at the roll for paper manufacturers, paper processors and paper retailers

Quick - accurate – non-destructive - handy – simple handling

Handheld moisture meter with non-contact infrared paper temperature measurement for determining the absolute water content of paper and board at rotating as well as at stagnant rolls



Measuring procedure

Switch on the instrument, select the right calibration curve (dependent on the paper density) and press the sensor bars of the instrument against the long side of the roll. The illuminated display immediately shows the measuring value. For an average moisture content reading or to identify sections on the roll that are too moist or dry, simply move the device along the entire length of the roll. The humimeter PM5 offers a data memory for up to 10,000 measuring values as well as the possibility to enter additional data such as batch number. Via the USB interface, the measurement values can be transferred to a PC and via LogMemorizer® PC software the data can be archived, exported, processed or printed out.

- Optimize maintenance times by detecting eventual moisture streaks in time!
- React to moisture variations quickly!
- Avoid manufacturing problems due to elongation and shrinkage!
- Check your products before shipping!
- Optimize your drying costs!
- Avoid flatness problems due to wave formation!
- Use a non-destructive measuring method!



Features:

- Quick and non-destructive measurement
- Measuring range 1% to 25% absolute water content, dependent on paper type
- Measuring depth: 50 mm
- 22 standard calibration curves (extendable)
- Resolution: 0.1% water content
- Paper temperature: 0 to +80 °C / 32 to 176 °F
- Non-contact infrared paper temperature measurement, automatic temperature compensation
- Temperature can be set to °C or °F as required
- Hold function, Auto datalog function
- Scope of supply: humimeter PM5, humimeter USB data interface module with LogMemorizer measuring data recording and analysing software on USB flash drive, rechargeable battery, plastic case with proof plate
- Optional: portable thermo printer



Accredited test laboratory:

Our test laboratory conforms to the requirements of the globally valid standard EN ISO/IEC17025:2007. In 2017, the laboratory has been certified for the determination of water content according to EN ISO 287: Paper and board - Determination of moisture content of a lot - Oven drying method. The requirements necessary for obtaining and preserving the accreditation ensure ma- ximum testing quality. Among others, the requirements include highest technical com- petence, a sophisticated and constantly improved quality management system and a complete documentation.