

Wood chips moisture meter

FS_3 Biomass



**Messtechnik
Schaller GmbH**



- ◇ You have problems in your heating plant because of wet fuel?
- ◇ You need to give price discount because of high moisture?
- ◇ You dry too long and therefore sell too cheap?
- ◇ You pay too much money for drying?
- ◇ You buy water for the price of fuel?

- ☑ Reduce failure of your heating plant!
- ☑ Check quality of incoming deliveries!
- ☑ Optimise your moisture value profitably!
- ☑ Use a non-destructive measuring method!
- ☑ Less price discount because of accurate measurement!



Too high or too low moisture increases your costs!

- × No sample preparation necessary
- × High long time accuracy and stability
- × Save time with a measuring process that takes a few seconds only
- × You can measure wood chips, barks, wooden pellets, wood shavings and sawdust
- × Data storage for moisture, temperature, date, time and suppliers data
 - × Optional printer for documentation of measured values
 - × Interface for an easy computer transfer



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Get in contact with us or one of our retailers!

General information about material moisture:



In the field of moisture measuring there are two kinds of moisture:
Relative equilibrium moisture content and absolute moisture of material.



The relative equilibrium moisture content of a material indicates the relative moisture of ambient air counterbalancing the material. In this case the material does not absorb or release any moisture.



The absolute moisture of material indicates the percentage of water content of a material referred to the total weight (paper, grain,...) and with some materials (e.g. wood) referred to the dry mass.



Almost all materials in our surroundings are hygroscopic. This means that they soak up moisture from the surroundings or set moisture free.

Everything depends on the content of moisture!



In case grain becomes mouldy or farmers dry wheat too long, they have to sell it at a lower price. The less moisture grain contains the lighter it becomes.



If, for example, two pieces of the same kind of material (e.g. wood) containing different levels of moisture are glued together, the pieces can break apart due to loss of moisture and shrinkage of one piece resulting from that loss. Who does not know those beautiful but shaky wooden floors as a result of loss of moisture?



Another example: Two pieces of leather, one containing a lot of moisture and the other with a moisture value adapted to the air, are sewed together. The effect is the same as the one above. The moist piece of leather releases moisture into the air while shrinking at the same time. As result you get is a wavy seam.



If grain or chips of wood are stored in a place that is too moist, they become mouldy, thus resulting in a considerable degradation of quality. There can also be problems in further processing or even a standstill of machines.



You buy water at a high product price, for example in coffee, paper etc. Or take biomass fuels for example where additionally the utilization ratio quite soon decreases by half with increasing water content.



Iron in reinforced concrete bridges rusts and Rembrandt's paintings in museums fade or get cracks.

In order to avoid these costly mistakes, moisture of materials in manufacturing and treatment processes must be checked in order to give you the chance to take suitable measures in time.

Should you have any problems like the ones mentioned above or any other questions concerning moisture, please contact us: +43(0)3112 / 6120 -0 – office@schaller-gmbh.at

Order our brochure with our whole product range or our CD-ROM by fax, telephone or via e-mail! To be up-to-date regarding moisture measuring you can subscribe to our e-mail newsletter under news@schaller-gmbh.at.

Application description for FS_3 Biomass Wood chips moisture meter:

For moisture measurement of wood chips, barks, wood pellets, wood shavings and sawdust. After filling the measuring instrument with a sample, the moisture value is immediately shown on the display and can be stored by pressing a button.



Technical data:

Measuring range	0 to 60% moisture of wood chips
Temperature compensation	automatically
Sample preparation	unnecessary
Interface	RS232 for PC and printer
Measured data storage	moisture, date and suppliers data
Calibration	15 types of biomass calibrated
Operation temperature range	0°C to +40°C (32°F to 104°F)
Power supply	3 pcs. AA Mignon batteries
Display	lighted matrix display
Resolution of measured data	0.5% moisture / 0.5° temperature
Dimensions / weight	290 x 300 x 490 mm / appr. 5500 g
FS_3 Biomass part number	10732 EN
Scope of supply	batteries, plastic bucket
Optional accessories	digital scales 5000g, portable printer, software-package for PC