

Wood chips moisture tester

FS_200-HT



**Messtechnik
Schaller GmbH**



- ◇ You want to know whether you can heat your fuel or not?
- ◇ You have mouldy wood chips because of too high moisture?
- ◇ You have problems in your heating plant because of wet fuel?
- ◇ You dry your wood chips too long?

- ☑ Reduce failure of your heating plant!
- ☑ Check quality of incoming deliveries!
- ☑ Optimise your moisture value profitably!
- ☑ Use a non-destructive measuring method!



Too high or too low moisture increases your costs!

- × Reduce failure of your heating plant by the use of our moisture tester
- × Save time with a measuring process that takes a few seconds only
 - × Optimal for testing whether you can heat your fuel or not
 - × Small, handy, applicable everywhere on site
 - × Simple handling of moisture tester
 - × No sample preparation necessary



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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 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.

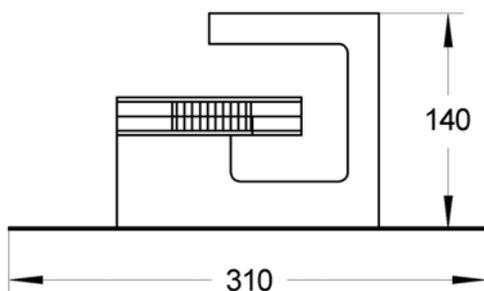
Should you have any problems like the ones mentioned above or any other questions concerning moisture, please contact us: **+43(0)3112 / 6120 -0 – office@schaller-gmbh.at**

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_200-HT Wood chips moisture tester:

Measuring instrument for a quick moisture test of wood chips. With the correct switch position the wood chips moisture tester is put on the wood chips. Press firmly onto it. The absolute wood chips moisture value can now be seen on the display.

For measurements concerning charging we suggest the more exact **FS_3 Biomass** moisture meter!



Technical data:

Measuring range	up to 30% (max. 40%)
Temperature compensation	automatically
Sample preparation	unnecessary
Depth of measuring	max. 200 mm
Operation temperature range	+5°C to +35°C (41°F to 95°F)
Power supply	9V alkaline or NiCd-accumulator, for approx. 4000 measurements
Current consumption	approx. 5 mA
Display	LC-Display, 3-digit
Resolution of measured data	1,0% moisture of wood chips
Dimensions	100 x 140 x 310 mm
FS_200-HT part number	10743 EN
Scope of supply	9V battery