

Paper-moisture-meter Thermo-Hygrometer LF_pro



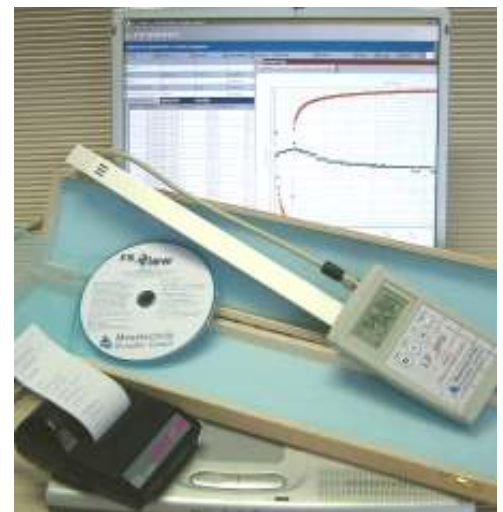
**Portable moisture meter
quick – cost saving – automatic documented**



- ◇ You have long set-up times for your machines?
- ◇ You have problems through corrugation?
- ◇ You have problems with ink coverage or ink saturation?
- ◇ You have not any or faulty quality documentation?

LF_pro stands for:

- ☑ Quickly and user-friendly paper measurement in the paper pile
- ☑ Easy data storage at the portable moisture meter
- ☑ Analysis at the PC and printer available
- ☑ Optimal documentation of your quality



Documentation of your quality-controll saves money!

- × Quick and cost saving paper measurement
- × High long-term stability and repeat accuracy
- × Data storage at the portable moisture meter
- × Analysis and documetation of your measured data at PC or portable printer



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**Get in contact
with us
or one of our retailers!**

General 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 condition 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 (wood) referred to the dry mass.

Almost all materials in our surroundings are hygroscopic. This means that they soak with 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 much moisture and the other 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. The result you get is a wavy seam.

If grain or chips of wood are stored in a much too moist place 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 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.

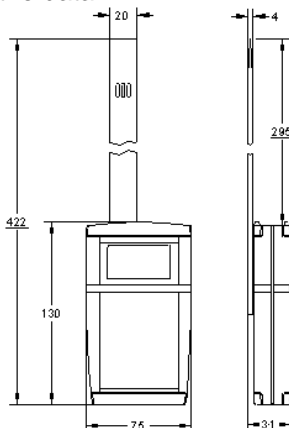
In order to avoid these costly mistakes, moisture of materials in manufacturing and treatment processes must be checked in order to give you the chance to take suitable measures in time.

Should you have any of the above mentioned problems or any other problem concerning moisture, please contact us: +43(0)3178/28899-0 – office@schaller-gmbh.at

Order our brochure with our whole product range or our product CD-ROM either 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 measuring moisture in paper stacks with LF_pro:

In order to measure moisture and temperature in a pile of paper the sword-shaped instrument is put into the pile between the layers. Moisture and temperature can be seen on the display after an adequate time of adjustment and can be stored if necessary. Measured values can be printed out with the mobile printer or transmitted to PC to record and evaluate the data.



Technische Daten:

Measuring range humidity	0 bis 100%r.F.
temperature	-10 bis +60°C / 14 bis 140°F
Accuracy of the factory calibration at 25°C / 77°F	0-90%: ±1,5%r.F. (opt.: ±1%r.F) ±0,5°C / ±0,9°F
Required response time t90 after adjusting of temperature	<10 sec. at 25°C (77°F)
Operation temperature range	0°C bis +50°C (32°F bis 122°F)
Measured value storage	approx. 8000 values (rh + Temp)
Autolog time	selectable 3sec. to 4h
Power supply	3 pcs. 1,5V AA alkaline batteries
Current consumption	ca. 15mA
Automatic shut-off	after approx. 4 minutes
Display	Matrix-LCD 128 x 64 pixels
Resolution of measured data	0,1%r.F. / 0,1°C / 0,2°F
Dimensions without sword	75 x 130 x 26 mm
Length of sword	approx. 295mm
Weight	approx. 280 Gramm incl. batteries
Order number	11080 EN
Scope of supply	Batteries, Wooden case, User manual

Accessories: Swordcase and -pulling aid, Calibration equipment and ampoules, Mobile printer, Software package for recording and evaluation