Döscher

Moisture measurement in wood panels

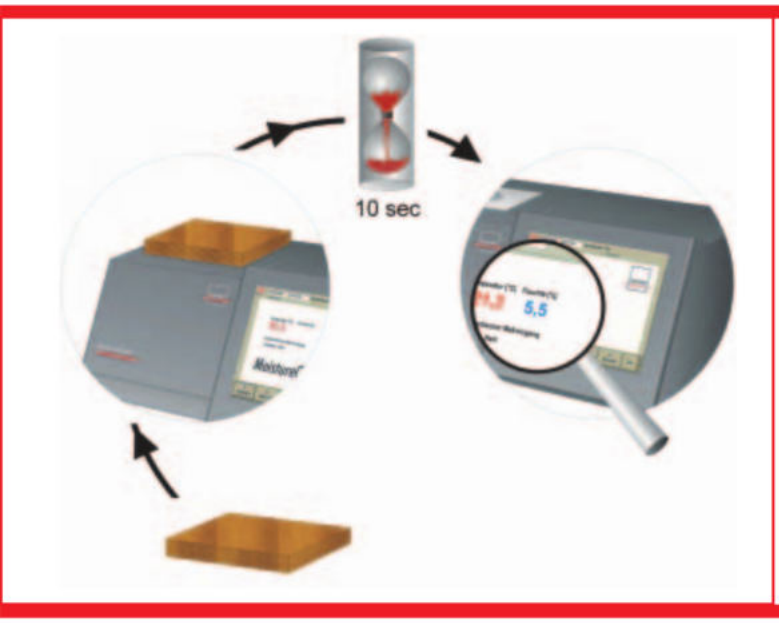
MoistureGuard

MoistureGuard – for the determination of the water content in your wooden plates

The water content substantially affects the product and quality characteristics of engineered wood panels and massiv wooden plates. MDF panels can be milled clean, for example, only with a certain humidity content. HDF panels also need a completely closely seized moisture range for the optimal firmness between carriers and decoration/countermove. In wooden plates, a varying water content affects the inherent stability and leads to dishes of the plates.

The measuring instrument, MoistureGuard, gives a fast and reliable measure of the water content at the surface and in the sample core. One is always informed about the water content of the entire panel - without any sample preparation. Initial and output weight of the panel samples are not necessary. A drying process lasting several hours of the panel samples is void. The panel sample (50 mm x 50 mm or 100 mm x 100 mm) is put on the MoistureGuard. Then one can begin measurement over the integrated Touchscreen. Within seconds, the measured value is shown and can be corrected or intervened with.

Due to its solid construction, the measuring instrument is suitable both for the laboratory and for application in production. The MoistureGuard is easy to use and contains a multiplicity of measuring, such as calibration and evaluation functions. With the MoistureGuard, you are informed with quick and reliable results. They optimize the process parameters in your production process without time delay and thus reduce costs and complications. The work and expenditure of time are minimized to produce an economic advantage!



Advantages on a view

Microwave based measuring technique

- independent of density and weight
- exact and fast measurement
- independent of color and structure
- measures the core and the surface moisture

Improvement of production

- quality safety device
- reduction of rejection
- reduction of complaint costs

Optimized operational sequence

- substantial saving of time
- shortened starting phase
- fast and punctual recognizing of disturbances
- current information for processing

User friendly handling

- quick measurement
- no sample preparation
- long-term-stability
- saves substantial amount of time

Use of the product

- Process parameter moisture is measured at face-value
- your product quality is reached faster
- your rejections minimized
- your laboratory costs is reduced
- your personal employment is optimized
- your production is continuously informed in a timely manner

Components

Technical data

Measuring range:	0 – 20 % [on dry basis]
Repeat accuracy:	1% of the final value of the selected measuring range [i.e. measuring range 0-10%: + 0,1% accuracy]
Measuring time:	4 measurements per minute
Power supply:	230 VAC, 50 Hz or 115 VAC, 60 Uz
Temperature **- product:** **- ambient:**	 0 - 70°C 0 - 40°C
Different products:	up to 200
Sample size: **Max data set:**	120 mm x 120 mm 200.000
Data storage:	hard disk drive
Interfaces:	1 x USB [further interfaces are possible]
Size: **Weight:**	590 mm x 370 mm x 320 mm 15 kg

Technical data are subject to change.

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