

TimberScan

Döscher & Döscher

Automated moisture measurement for solid wood up to a thickness of 50 mm

Product Description

The TimberScan measures the moisture of solid wood such as: timber, solid parquet and veneer up to a thickness of 50 mm.

It can be installed into the production process of such materials and continuously measures the moisture content of the product.

Method

The measuring system consists of Interspace probe, cabinet and terminal. The product to be measured is fed non-contact through the gap of the probe.

Every product passing the electromagnetic field is changing the characteristic of the field which will be analyzed. Unlike conventional methods with transmitter and antenna this new concept, consisting of a combination of transmission and resonance method, the measuring signal continuously penetrates the product. A very intense reciprocal effect between field and water molecules in the product arises, which leads to a very high sensitivity and measurement accuracy of the water content.

The measuring method works without heating the product and is independently from density as well as thickness of the product. The characteristics of the method are non-contact measurement, low calibration expenditure, high measuring accuracy and excellent long term stability.

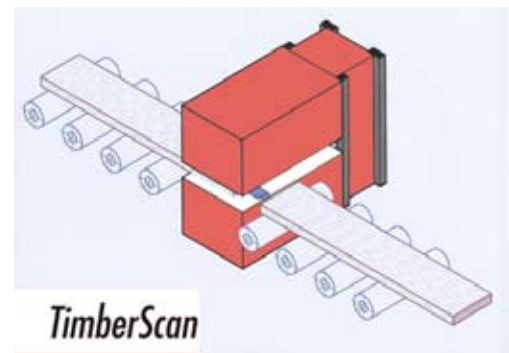
Service

Döscher & Döscher's special support: Using special diagnostic software directly from the Hamburg headquarters, support and maintenance work can be accomplished online while talking with the customer.

TimberScan
for non-contact moisture measurement



sketch of TimberScan



Components

	Interspace probe
	Switch cabinet
	Terminal

Technical Specifications

Measuring range:	Subranges can be selected, depending on probe and product
Repeat accuracy:	1 % of final value of selected measuring range [i.e. measuring range 0 - 10%: 0,1% accuracy]
Measuring time:	up to 1000 measurements per second, Moving mean adjustable via software
Power supply:	24 VDC
Product temperature:	0 – 70 °C [32 - 158°F]
Ambient temperature:	0 – 40 °C [32 - 104°F]
Number of different products:	16
Interfaces:	
- Serial	RS422 for connection of terminal
- Analogue	4 – 20 mA, moisture and temperature
- Digital	4 x In- and Output
Interspace probe	Size: 765 mm x 830 mm x 360 mm Weight: 45 kg [100 lbs]
Switch cabinet	Size: 300 mm x 300 mm x 150 mm [12" x 12" x 6"] Weight: 5,5 kg [12 lbs]

Technical specifications are subject to change.

Applications

Industries:	wood
Materials:	solid wood such as: timber, solid parquet & veneer (< 50mm thickness)

Weitere Informationen erhalten Sie gerne unter:

For further information, please refer to:

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