Kett

SCIENCE OF SENSING

Wood
Moisture Tester

Wood Moisture Tester
Model HM-540

Operate with just one-hand
Scratch-free



KETT ELECTRIC LABORATORY

Wood Moisuter Analyzer **Model** HM-540

The HM-540 is a high-frequency capacity type moisture tester operated by just lightly pressing it against wood, leaving the wood surface without any scratches.
Wood for construction requires a long time to completely dry ; deciding dryness according only to the surface may cause many problems such as warping and deviating from the finished dimensions.
To prevent these problems, the HM-540 enables users to measure the moisture inside the wood.
In addition, when damaging the surface is undesirable, such as with high-grade dry wood used for furniture and musical instruments, or wood with low moisture is measured, measurement using this device is highly effective.
The HM-540 is equipped with moisture value correction, data storage/output, statistical calculations and auto-hold in addition to all the functions provided with the HM-520, which is our conventional model, has a larger screen and a backlight. Furthermore, the case and switches have been redesigned based on ergonomics, making the device more user-friendly.

• Small and lightweight

(1) Turn on the power while directing the moisture detection section in the air. (2) Press the device against the object for measurement. A series of measurement operations can be conducted securely and smoothly with just one hand.





• Moisture value correction

When correction is conducted according to differences in specific gravities due to localities or for other reasons, correction with a linear expression (ax+b) can be conducted with respect to the displayed value.

• Liquid crystal display with backlight

The screen is larger than that of the conventional HM-520 and the newly provided backlight and contrast adjustment enable easily conducting moisture measurement in dark places.

• Data storage and statistical calculations

Up to 999 measurement data items can be stored, and the stored data can be viewed on the moisture tester screen. Thanks to the statistical calculations, the maximum, minimum, average and standard deviation of the specified measurement data can be calculated. The HDL-02 optional data logger software enables the stored measurement data to be output on a PC.

• Measurement result hold

Even when the screen is at a less visible angle, pressing the hold key enables the measurement result to be held. An auto-hold function is also provided to display the value; this auto-hold is activated without having to press any keys.



Measurement by pressing the device even at an impossible to see angle



Display fixed by pressing hold key



Measured value remains displayed

Specifications

Measurement method	High-frequency capacity type (20 MHz)
Application	Wood
Measurement range	2 - 150% (specific gravity and tree species dependent)
Measuring Accuracy	Standard error: 0.5% or less (our standard sample, cedar/cypress: 20% or less), Drying: JIS Z 2101:2009
Data memory	999
Correction function	Thickness: 10-40 mm, Specific gravity: 0.1-1.25 (up to 3 setting values storable), moisture: slope (0-2.50), offset (-9.9-9.9), temperature: automatic (10-40°C), manual (-10-70°C)
Additional functions	Statistic calculations, auto power off, auto hold, upper limit alarm, etc.
Display	128×64 dot matrix LCD
Power	9V alkaline battery (006P) ×1, 350 mW
Dim. and weight	72(W)×146(D)×118(H) mm, approx. 0.39 kg
Accessories	9V alkaline battery (006P) ×1, carrying pouch, specific gravity table, operating manual
Options	Data Logger Software HDL-02 (USB)



Carrying pouch



Strong and useful pouch to carry at work sites

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Management system enhancement department of the Japanese Standards Association (JSA) registers the Quality Management System of the above organization, which conforms to JIS Q 9001, ISO 9001.
The scope of the registration:
Design, development, production management, calibration and repair of moisture testers, NIR composition analyzers, grain inspectors and coating thickness testers.

Contact

To improve the product, specifications and the external appearance may be changed without notice. In addition, please note that due to printing, the product's color may appear different from the actual article.

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