

# Package K24-M

## Description

The package consists of the moisture meter Lignometer K and 2 pin electrodes E12 slide-hammer depth electrode and inspector electrode E14-V

## Applications

Used by flooring inspectors, contractors and water restoration specialists. For anyone who needs to investigate moisture conditions in wood floors, drywalls, roofing materials and structural elements in buildings. Electrode E12 and E14-V offer the best options for tracking moisture problems from the surface to 7" deep (add EL pins).

## Advantages

**Lignometer K** features Lignomat's most advanced pin measuring technology with a wide moisture range, over 150 correction settings and built-in wood temperature corrections for hot and cold lumber. Delivers outstanding reliability, great measuring accuracy and stable calibrations for all measurements. With the Lignometer K and the electrodes E12 and E14-V, you can choose the right accessories for the job on hand for fast estimates or accurate percent measurements.

The **Lignometer K** incorporates reliability, calibration accuracy and ease-of-operation with individual wood species corrections, a wide measuring range 5-99% and built-in wood temperature corrections. Unsurpassed accuracy is guaranteed even in the critical range below 8%. The Lignometer K has proven to perform well in rough mill environments with day-to-day usage. A BNC connector for pin electrodes and for in-kiln, extension cables (with Adapter H) is installed in the top of the meter.

**Electrode E12:** The E12 is designed to measure from the surface to 2" deep (with DB pins). All E12 pins are insulated and measure only at the tip. The slide hammer helps inserting and removing the pins. As pins are hammered into the material, consecutive readings show the moisture distribution within the material at every depth level the pins are driven to. The ability to measure a moisture gradient is one of the main reasons for our customers to use the electrode E12, even though the Ligno-VersaTec by itself can take moisture measurements at two depth levels 1/4" and 3/4" deep in pinless mode.

**Wood:** Taking numerous readings as pins are inserted, indicate if a moisture gradient exists or if the wood is dry throughout the core. Making sure wood is evenly dried is the best assurance for quality wood products. The thicker the wood, the more important core readings become. When inspecting wood floors, using the E12 gives you a tool to assess moisture distribution through floor planks into the sub floor without having to remove any floor planks. No other tool can achieve the same measuring accuracy at a defined depth.

**Restoration:** The moisture in structural components even behind wall coverings can be checked with the electrode E12. When assessing water damage, the pins of the E12 can be driven to different depth levels and thus indicate how far water has been absorbed or if there is still residual moisture inside the structure after drying. Insulated pins can measure dry material behind wet surfaces.

If the round head of the E12 cannot reach the area to be measured or you need to measure deeper than 2" use the electrode E14-V and add EL pins.



Ligno-VersaTec for pin - pinless - RH measurements.

For assessing moisture problems in construction, flooring, restoration, maintenance.



**Pinless mode:** fast and easy moisture checking of floors, walls and ceilings 1/4" and 3/4" deep. Domestic and tropical woods, floors, bamboo, engineered products, drywall, even concrete.



Slide-hammer to pin-point moisture distribution from surface to core.

For quality control, for restoration jobs, when installing, inspecting floors.

**Inspector Electrode E14-V** with teflon-coated pins EG: The slim shape allows for checking around pipes, below window sills, in wall corners, places where round electrodes or built-in pins from moisture meters cannot reach. With the E14 you can truly track moisture where it hides. Adding the 7" long EL pins lets you reach through insulation or under baseboards into structural components. Great for EIFS inspections. For depth measurements in wood, wood floors or structural lumber up to 2" deep, we recommend adding the slide-hammer electrode E12 see also package V24-KM

The knob at the end of the handle can be removed and replaced by a paint brush handle or broom stick. You can stay a distance from mold infested areas and still be able to get reliable measurements. Extending the handle with a broom stick makes measuring carpets and carpet padding easy without crouching down. Ceilings can be checked for moisture leakage without a ladder.

Pins measure only at the tip. EG and EL pins are teflon coated up to the electrode handle. Moisture from a wet surface is never picked up, even if the pins are pushed all the way into the material.

In addition, the electrode and pins are built tough, which allows the user to hammer pins into wood and other hard materials, without damage to the probe or the pins. (Strand bamboo, hard hardwood and even cementitious materials)  
Pinless Search and Compare Mode can track moisture in walls, ceilings and floors. Lumber mills use the meter to make sure QC requirements are followed.



Inspector electrode E14-V measures in places where other electrodes cannot reach, with EL pins up to 7" deep.

## Lignometer K Specifications

Size: 4.75"L X 2.5"W X 1"H

BNC connector for an assortment of external electrodes and in-kiln probes

### Measuring Range:

- Wood: 5-99%
- Gypsum, Sheetrock, Wall Boards: 0-22%
- Reference Scale: 0-99

**Display:** Resolution: 0.1% below 10% and 1% steps above 10%, life-time warranty

**Wood Temperature Corrections:** 0°F to 210 °F or -15°C to 95°C

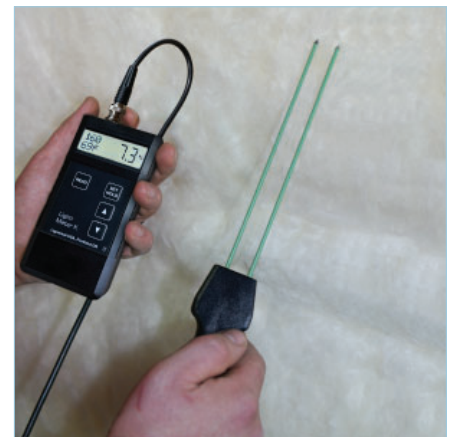
### Species Corrections

over 150 settings to correct for:

- domestic and tropical wood species
- bamboos, vertical, horizontal and strand
- laminates and wood-based panel products

4 Scales for gypsum, drywall, wall boards (0-7.5%)

1 Reference Scale for building materials, for identification of moisture levels in Search and Compare Mode



Adding the EL Pins allows reaching through insulation to measure structural components. EL Pins are 7" long, teflon-coated.

**Calibration:** Stable calibrations not affected by ambient temperatures. The calibration is internally checked by the meter before each reading and if necessary automatically adjusted. We offer an external calibration check block to verify calibration and check function of meter, cable and electrode.

### Operation:

Push SET repeatedly to dial settings for species, wood temperature and measuring depth. Change settings with up and down keys.

Push READ to obtain moisture measurements.

Instrument stays on for 3 minutes, then turns itself off.

At any time you can change from pin mode to scan mode by depressing up or down button

HOLD function is available for measuring in places, where the display cannot be seen or when taking photos of the display.

Display shows moisture percentage, wood species and wood temperature settings.



Ligno-VersaTec comes with a BNC connector for pin electrodes, a 35mm Stereo plug for RH measurements and 2 measuring plates on the back for pinless scan mode.

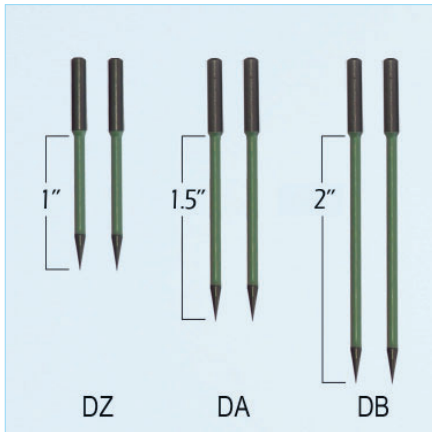
## Electrode E12 Specifications

Weight 3.5 lbs. Length without pins 12".  
A cable connector (BNC) is mounted at the head of the electrode.

**E12 pins** are teflon coated to only measure at the tip and come in three options:

- DZ Pins insulated, measuring depth 1"
- DA Pins insulated, measuring depth 1.5"
- DB Pins insulated, measuring depth 2"

1 pair DZ pins and 1 pair DA pins are included in the package  
DB Pins not included



Pins for E12: DZ, DA, pins can only be used with the Electrode E12.



Teflon coated pins measure only at the tip.



The electrode E12 has a slide hammer to insert and extract pins easily.

## Electrode E14-V Specifications

Weight 5 oz. Length without pins 7".  
Electrode E14-V comes with a 3 ft BNC cable to connect the Ligno-VersaTec moisture meter.

Electrode E14-V can be connected to  
- **Ligno-VersaTec** and Lignometer K

**E14-V** pins come teflon coated or uncoated depending on the measuring depth. Teflon coated pins only measure at the tip.

- EG Pins insulated, measuring depth 3/4"
- EL Pins insulated, measuring depth 7" not included in package V4-KM included.



Adding EL Pins allows reaching 7" deep.



Inspector Electrode E14-V is designed to reach where moisture hides.  
E14-V is tough enough to hammer pins into hard materials.

## Package Includes

- 1 Lignometer K meter with 9V battery, laminated wood group card, instruction manual and built in BNC connector for external electrodes including E14-V and in-kiln probes or monitoring cables (with Adapter H)
- 1 Slide-hammer electrode E12, 1 pair pins DZ 1" and 1 pair pins DA 1.5", teflon-coated
- 1 BNC cable for E12
- 1 Inspector electrode E14-V with cable for Ligno-VersaTec and EG pins teflon-coated
- 1 Case M