

# Package V-11

## Applications

Whenever moisture has to be measured, but the location cannot be reached with hand-held meters. PK probe and cable systems are often used to monitor lumber drying. At any time, the Ligno-VersaTec can be used as pinless dual-depth moisture meter.

## Advantages

**Pin – pinless – RH:** When every job is different, the Ligno-VersaTec is the most versatile meter, all-in-one. It measures moisture in a wide range of materials and in relative humidity of air (with RH BluePeg probe). System also complies to ASTM F2170 for in-situ RH concrete testing.

Cables and PK probes are used:

- For kiln drying, nobody has to enter a hot kiln. The drying cycle is monitored to avoid over and under drying and to determine, when the lumber is dry.
- For monitoring logs, lumber, laminated beams, structural elements in buildings, crawl spaces, attics.

## Description

The package V-11 consists of the moisture meter Ligno-VersaTec (pin-pinless-RH) and cable and probe sets to monitor moisture in wood and other materials.

The **Ligno-VersaTec** is the most advanced meter among Lignomat's moisture meters for pin-pinless-RH measurements. The meter provides for pin and pinless measurements and the option to add a RH probe for RH/T/DT/GPP readings. Features are the wide moisture range and more than 170 correction settings for measuring domestic and tropical wood species, OSB and other panel products, bamboo, gypsum and different types of wall boards. Relative scales are included for concrete, cementitious materials, plastics, insulation...

The **pinless mode** on the Ligno-VersaTec is set to measure 1/4" and 3/4" deep, using separate sets of calibrations for each measuring depth. Pinless mode in the VersaTec allows fast and easy measurements of flat materials up to 3/4" deep. If the material is not flat, or measurements should reach deeper and differences between surface and core moisture have to be measured, the Electrode E12 should be added to accomplish those tasks.

**PK probes and cables** have been used to measure moisture inside a dry kiln for over 50 years. To this day, the same PK probes are used with Lignomat's dry kiln control systems for small and large, industrial kilns. If multiple probes and cables are used, kiln performance can be checked by distributing the cables in top, bottom, sides and middle of the kiln. Cables can be custom-cut upon request, standard 6ft.

All PK probes have a hole in the head for pushing a 4mm banana plug through. This is a fail-proof connection. The probes have teflon-coated shanks, which insure that the moisture is measured at the core and measurements are not affected by surface moisture. Probes are inserted into pre-drilled holes and are set and removed properly with the Pulling Tool.

All PK probes are made out of stainless steel to withstand the harsh conditions in a kiln. They can be re-used for many drying cycles. Using pulling tool will help to set and remove probes without any damage.

PK probes can be used in many materials other than wood, such as concrete, brick, tile, roofing. They monitor changes in moisture content at the depth where the tips of the probes are placed. PK probes can be used with handheld moisture meters, angle connector and switchbox, MC Tracker data logger or wireless transmitters.



Multi-function meter with extension cable for remote measuring. From lumber drying to monitoring critical areas in the building envelope.



Place probes in the kiln, read moisture outside without opening a hot kiln. Multiple probes allow monitoring different areas in a kiln.



**Pinless mode:** fast and easy moisture checking of lumber and flat boards. Domestic and tropical woods, wood floors, engineered products, bamboo.

## Meter Specifications

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

Measuring Range:

- Wood: 5-99% (pin)
- Gypsum, Sheetrock, Wall Boards: 0-7%
- Reference Scale: 0-99

Display: Resolution: 0.1% for all values

## Species Corrections

over 170 settings to correct for:

- domestic and tropical wood species
- bamboos, vertical, horizontal and strand
- OSB and wood-based panel products
- gypsum, drywall, wall boards interior, exterior, and water resistant (%)

3 Reference Scale for building materials including concrete

**Operation:** Working with the Ligno-VersaTec is simple with clearly marked push buttons. Meter fits comfortable in your hand for pin and pinless readings.

## Functions:

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. When the RH BluePeg is connected, the meter automatically switches to RH mode. No further set-up is necessary.

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, wood temperature (only pin) and depth settings (only pinless).

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PKA: measuring depth 1/2" (1.2cm) 4/4 lumber

PKB: measuring depth 3/4" (1.9cm) 6/4 lumber

PKC: measuring depth 1" (2.5cm) 8/4 lumber

PKD: measuring depth 1 1/2" (3.8cm) 12/4 lumber

PKE: measuring depth 2 3/4" (7cm)

Measurements from PK probes can be obtained with

- handheld moisture meters (Lignometer K or Ligno-VersaTec)
- MC Tracker data logger
- wireless transmitters

## Options:

Add the depth-slide-hammer electrode E12 and BNC cable to spot-check lumber anywhere at any time. Pins for core measurements up to 2" deep. Package V2-11M

Add EMC holder to measure EMC (relative humidity) inside a dry kiln, in your warehouse, manufacturing place, etc.

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## Package Includes

1 Ligno-VersaTec meter with 9V battery, laminated wood group card, instruction manual and built in connector for assortment of external electrodes and in-kiln probes (with Adapter H)

1 pair PKB probes

1 PK-H cable

1 adapter H



For Pin measurements add the Electrode E12 with slide hammer or the Electrode E14-V to hammer into wood and other solid materials



Pulling tool fits over PK probe head. Assures placement and removal without damage to the probes. Must be ordered separately.



V-11 package comes with PKB probes, works for 4/4 and 6/4 lumber