

# Package V6-S

## Applications

The E16 electrode is used for measuring hard building materials, concrete, brick, tile, stone, grout, up to 7" deep with EL Pins. Otherwise, moisture measurements can be also taken with the dual-depth, pinless mode of the Ligno-VersaTec.

## Advantages

**Pin – pinless – RH:** When every job is different, the Ligno-VersaTec all-in-one is the most versatile meter, with the widest moisture range and individual correction settings in pin and pinless mode for domestic and tropical wood species, OSB, panel product, drywall and reference scales for laminates, carpets, concrete ...

The advantage of the Electrode E16 are the two separate, pin posts for easier insertion into hard materials. The 2 posts also allows a wider distance between the 2 pins. Using the E16 you get instant results when measuring moisture in concrete.

## Description

The package consist of the moisture meter Ligno-VersaTec (pin-pinless-RH) and the E16 pin electrode in a hardshell carrying case. In pinless mode flat materials can be checked fast and easy up to 3/4" deep. In pin mode the electrode E16 gives instant readings up to 7" deep in hard building materials such as concrete, stone, brick.

## Ligno-VersaTec

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

The **pinless mode** in the Ligno-VersaTec allows measurements of flat materials 1/4" and 3/4" deep. Percent values are indicated for all wood species, OSB and other panel products, bamboo and drywall. Relative scales are for all other materials including concrete.

Reliable measurements are not possible, if the material is not flat or measurements should reach deeper than 3/4" or differences between surface and core moisture should be found. Those tasks can be accomplished with the E16 for hard building materials. For all other materials the E14-V electrode can be added.

The **electrode E16** consists of two separate posts. Each post is 2" long with a ball head. The cable is connected through a hole in the post using a 4mm banana plug. The bottom of the posts have threads for the pins. An assortment of pins is available with lengths from 3/16" to 7" (Pins EG, EL and EC, EA, EV). Tapping on top of the ball head with a mallet or hammer will drive pins into the material. Pre-drilling holes maybe required for deeper measurements.

We recommend a distance of 4" (10cm) between the pins for measuring cementitious materials including concrete. Cementitious materials have a low electrical resistance compared to wood and tend to give high values, therefore changing the distance allows a wider moisture range. Measurements obtained from concrete or cementitious materials are not true percent values. They only can be used as reference numbers or comparative readings. Comparative measurements become meaningful, when a dry sample piece of the material is available. Measurements can then be compared to the moisture value for dry.



Ligno-VersaTec with multiple settings for wood and building materials. Electrode E16 for measuring soft and hard building materials, incl. concrete.



Hard-to-reach areas can be easily measured when adding the long EL pins. Reaching through insulation and wall boards.



Pinless mode: fast and easy moisture checking of lumber and flat boards.

Using the Ligno-VersaTec with the Electrode E16 gives immediate results when measuring concrete. The measurements can show areas of high and low moisture. If measurements are taken with the EL pins at different depth levels, the moisture profile of the slab becomes obvious. However, it cannot replace the in-situ probe test or the Calcium-Chloride test which allow to determine, if a wood floor can be installed.

### 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.

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 places, where the display cannot be seen. Display shows moisture percentage, wood species, wood temperature (only pin) and depth settings (only pinless).



Electrode E16 for hard bldg materials and cement-based panels for  
- Ligno-VersaTec



Electrode E16 allows wide distance between probes to allow for measuring cementitious materials incl. concrete.

### Electrode E16 Specifications

Electrode E16 consists of 2 posts. Each probe comes with EC pin and hole for 4mm connector. BNC-E16 cable makes the connection to the Ligno-VersaTec.

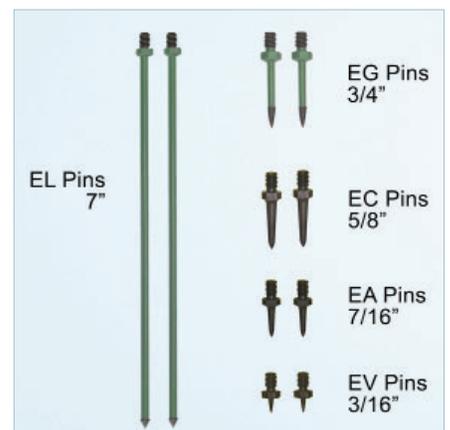
Available pins for E16:

EG pins teflon coated, measuring depth 3/4"

EL pins teflon coated, measuring depth 7"

EC 5/8", EA 7/16", EV 3/16", un-coated

EC pins are included in package V6-S. E16 pins come teflon coated or uncoated depending on the measuring depth. Teflon-coated pins only measure at the tip.



Selection of Pins for E16:  
EG, EL, EA, EC, EV

### Package Includes

1 Ligno-VersaTec 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 Specialty electrode E16 with 1 pair EC pins

1 BNC-E16 cable to connect electrode E16 to Ligno-VersaTec moisture meter

1 Case S