

Package V-B

Applications

When both, **wood moisture and air humidity** need to be measured. For flooring installations, inspections, water damage repairs, and wood production plants. The all-in-one multi-function Ligno-VersaTec moisture meter can be used as dual-depth, pinless meter, pin meter (add electrode) and thermo-hygrometer. When used as thermo-hygrometer, the Ligno-VersaTec measures **RH, Temp, DewPT, GPP**.

- ♦ Option to add pin electrode and remote, in-kiln probes
- ♦ Option to add accessories for RH in-situ concrete moisture testing (ASTM F2170).

Advantages

Lignomat's precision RH BluePeg probe gives this thermo-hygrometer great **accuracy** and a **short response** time. RH probe is detachable and can be connected to a cable for remote readings or extended with depth adapters DA to reach further into small places (see pg 4).

Besides using the Ligno-VersaTec as thermo-hygrometer, you can use the dual-depth, pinless function to measure moisture in wood (in percent), quick and easy with dual-depth, pinless mode 1/4" and 3/4" deep. Other materials including concrete can be measured with reference scales, Flooring installers and inspectors select the Ligno-VersaTec for its ability to measure the many different flooring products available today: wood floors, bamboo subfloors and engineered flooring products.

Description

V-B package offers two measuring technologies with the option to add accessories for in-situ concrete moisture testing and pin measurements.

- **Pinless mode:** materials can be checked fast and easy, scanning along the surface.
- **Thermo-hygrometer:** With RH BluePeg probe and RH adapter, the VersaTec can be used as a precision, fast-acting thermo-hygrometer.

The Ligno-VersaTec has a wide measuring range and more than 150 correction settings for domestic and tropical wood species, gypsum and different types of wall boards, bamboo and panel products. Relative scales are included for concrete (ASTM F2659), cementitious materials and different types of engineered panels. To activate the RH mode, plug the RH Thermo-Hygro probe into the top of the meter.

The **pinless mode** in the Ligno-VersaTec is set to measure 1/4" and 3/4" deep, using separate sets of calibrations for each measuring depth. For domestic and tropical wood species, gypsum and different types of wall boards, bamboo and panel products. Relative scales are included for concrete (ASTM F2659), cementitious materials and different types of engineered panels.

If the material to be measured is not flat, or measurements should reach deeper and show differences between surface and core, add the **pin** Electrode E12 or E14V to accomplish the tasks. In addition, Accessories are available to perform in-situ RH **concrete testing**.

RH mode / Thermo-Hygrometer: To activate the RH thermo-hygrometer mode, plug the RH Adapter with the RH BluePeg probe into the stereo connector at the top of the meter. Instead of using the Adapter RH, the 6 ft RH-CC cable included in the package can be used for remote measurements (any stereo cable could be used).

As soon as the connection is established, the Ligno-VersaTec is in RH mode. When the READ button is depressed, the meter immediately indicates the RH value. The up or down keys allow recalling the values for ambient T, Dew Point T and Grains Per Pound.

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Moisture meter and thermo-hygrometer:
-used for wood products and wood floors
-during inspections and installations
-used in the restoration industry
- wherever moisture and humidity matter.



Ligno-VersaTec as thermo-hygrometer with external RH BluePeg probe, accurate and fast acting, measuring relative humidity, temp, DT, GPP



Multi-material, dual-depth pinless meter:
set for 1/4" and 3/4" deep to measure wood, bamboo, engineered panels, drywall, concrete,...

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 scales for building materials including concrete

Functions: Pin and Pinless

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

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.

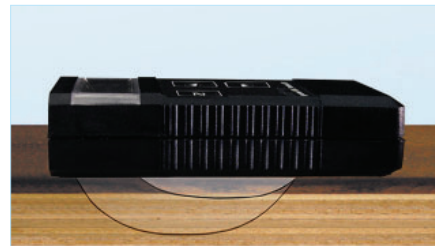
At any time you can change from pin mode to scan mode by depressing up or down button. When the RH BluePeg is connected, the meter automatically switches to RH mode. No further set-up is necessary.

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)

RH Mode: As soon as the RH BluePeg probe is connected to the Ligno-VersaTec with RH cables or RH adapter, the meter is in RH mode and indicates relative humidity, temperature, DPT, GPP.

RH Specifications see next page



Measuring depth matters.

Dual-depth 1/4" and 3/4" deep allows accurately measuring boards over and less than 3/4" thick.



Cable is included in V-B package to place probe in hard-to-reach areas. Allows measuring within walls, behind insulation.

Buy the Package V24-KM to use the Ligno-VersaTec to its full potential:

V24-KM package offers four measuring technologies, including the concrete slab in preparation for installing resilient floors.

- **Pinless** mode: materials can be checked fast and easy, scanning along the surface.
- **Pin** measurements: The E12 electrode is used for in-depth measurements
- **In-situ** probe testing: Included are standard accessories for in-situ moisture testing of concrete slabs.
- **Thermo-hygrometer:** With RH BluePeg probe and RH adapter, the VersaTec can be used as a precision, fast-acting thermo-hygrometer....

Package V24-KM:

- Ligno-VersaTec meter
- Depth Electrode E12
- Inspection Electrode E14V
- Accessories for in-situ RH moisture testing in concrete
- Case M



Package V24-KM

RH Specifications

The **RH BluePeg probe** uses a single micro-chip humidity and temperature sensor, factory calibrated to NIST standards. A NIST certificate can be found on this web page in the Document tab. During the first year we offer to check the accuracy of the probe calibration three times at no extra cost. This is helpful for our customers, who use the RH probes for in-situ concrete testing, because ASTM regulations require a calibration check when the probes are being **re-used**.

Specifications:

Relative Humidity	0% to 99%: Resolution for entire range is 0.1% ±2% for 10 to 90%, ±3% for 0 to 10% ±3% for 90 to 99.9%
Ambient Temperature	5°F to 160°F: Resolution for entire range is 0.1°F (0.1°C) 32°F to 120°F, ±0.5°F (0°C to 50°C, ±0.3°C) 5°F to 32°F, ±1°F (-15°C to 0°C, ±0.5°C) 120°F to 160°F, ±1°F (50°C to 70°C, ±0.5°C)
DPT	- 17.8°F to 160°F (Dew Point Temperature)
GPP	0-99.9 (Grains per Pound)

Size Ø 0.5 inches (1.27cm), length 1.35 inches (3.8cm)
Multiple slots for air circulation around RH sensing element
Connection Easy-to-connect 3.5 mm stereo connectors.

RH probe comes with 3.5mm stereo jack.
RH adapter and RH cables come with 3.5 mm stereo plugs on both ends to connect RH BluePeg probe to meters or data loggers.

Calibration Calibration Salts for 33 and 75% RH available. During the first year Lignomat checks the calibration three times at no charge.

All Lignomat meters come with a 2 year warranty. Accessories have one year warranty. Battery and pins are excluded.

Note: Off-the-shelf thermo-hygrometers usually come with an accuracy rating of ±5% for relative humidity and ±2°F for temperature.

RH Adapters and Cables

The Adapter comes with 3.5mm stereo plugs (male) on both ends to connect Lignomat's RH BluePeg Probe directly to the Ligno-DuoTec BW. A RH cable 6 ft for remote measurements is included with the package BW-B. The cable is used when the probe at the meter cannot reach the area or when the display cannot be seen, while measuring a tight spot.

The distance from the top of the meter to the end of the probe is 2.25" including the RH adapter. If that is too short to reach into heat ducts, walls and other small crevices, the shaft of the probe can be extended with the RH depth adapter #RH-DA.

Package V-B includes

- 1 Ligno-VersaTec meter with 3.5mm connector for RH probes / RH cables and BNC connector for electrodes, in-kiln cables and remote probe monitoring
- 1 9V battery
- 1 laminated wood group card and 1 instruction manual
- 1 RH Thermo-Hygro probe: RH BluePeg and RH adapter
- 1 RH Cable, 1 pouch

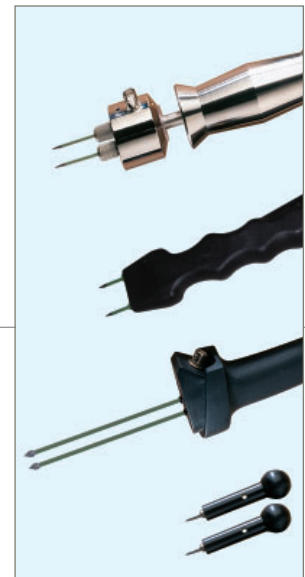


RH Thermo-Hygro probe including RH BluePeg probe plugged into RH adapter.

Fits into Ligno-VersaTec, Ligno-DuoTec, Ligno-Tec RH



RH mode - Thermo-Hygrometer: RH Adapter is used to connect RH BluePeg probe to meter.



To use pin mode with Ligno-VersaTec add one or more electrodes.

From top to bottom: E12, E14-V, E10 with EL pins and E16.



Accessories, Description for RH BluePeg Probes



RH BluePeg probes. Sold in sets of 1, 3, 5, 10, 25. #RH-B. Comply with ASTM F2170. Re-usable in-situ RH probes.



RH Cable with 3.5mm plugs. Connects meters and data loggers to RH probes. #RH-C.



RH Cable with 3.5mm plugs with sleeve-seal for insitu concrete testing while probes are inside sleeves. #RH-CC.



RH Cable with 3.5mm plugs with sleeve-cover to monitor RH probes. Cable stays connected. #RH-CB.



RH Adapter. Connects RH Probe directly to RH meter For Thermo-Hygrometer usage. #RH-A.



RH Depth-adapter makes RH probe longer to reach small crevices. Used for in-situ testing. #RH-DA.



RH Depth-adapter plugs into RH probe for easy cable connection in sleeves over 2.4" long.



Standard sleeves 1.8". #RH-S
Sleeves 3" long. #RH-SL
Adjust length by cutting. For short sleeves use #RH-EX.



Vacuum attachment to clean holes, in-situ RH concrete moisture test. #RH-V



Brush to clean-out holes, in-situ RH concrete moisture test. #RH-BR



RH-Top Extenders cover RH probes in shorter sleeves. Seal-off spaces for monitoring with data loggers. #RH-EX.



Salt solution 75% to check calibration of RH probes. Comes with cable #RH-CB and fittings for BluePeg probes. #T-75.



Ligno-Tec RH meter:
-- RH/ T / DPT / GPP



Ligno-DuoTec BW meter:
-- RH/ T / DPT / GPP
-- pinless, dual-depth



Ligno-VersaTec meter:
-- RH/ T / DPT / GPP
-- pinless, dual-depth
-- pin



Data logger BL2 records
-- RH/ T / DPT / GPP / EMC
Measures inside wall sealed off with cable RH-CB.