# Package BW-B



The BW-B package features the Ligno-DuoTec BW meter, which can function as a pinless, dual-depth meter for a wide variety of materials and a fast-responding, precision themo-hhygrometer.

## Applications

When both, **wood moisture and air humidity** need to be measured. For flooring installations, inspections, water damage repairs, and wood production plants. The Ligno-DuoTec BW moisture meter can be used as thermo-hygrometer and pinless meter. When used as a thermo-hygrometer, the Ligno-DuoTec BW measures **RH, Temp, DewPT, GPP.**

- Option: 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**. The RH probe is detachable and can be connected with a cable for remote readings or extended with the depth adapters #RH-DA to reach further into small places (see page 4).

Besides using the Ligno-DuoTec BW as thermo-hygrometer, you can use the dual-depth, pinless function to measure wood moisture in percent and other building materials, quick and easy with dual-depth, pinless mode 1/4" and 3/4" deep. Flooring installers and inspectors select the Ligno-DuoTec BW for its ability to measure many different flooring products: wood, bamboo, subfloors and engineered flooring products.


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-DuoTec BW

The meter provides for **pinless** moisture measurements and relative humidity measurements. It has more than 90 correction settings for measuring 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 DuoTec BW pinless mode allows fast and easy measurements of flat materials up to 1/4" or 3/4" deep, using separate sets of calibrations for each measuring depth.
- If the material is not flat, or measurements should reach deeper and show differences between surface and core, choose the Ligno-VersaTec and the **pin** Electrode E12 or E14V to accomplish those tasks.
- Accessories are available to perform in-situ RH **concrete testing ASTM F2170.**


Ligno-DuoTec BW as thermo-hygrometer with external RH BluePeg probe, accurate and fast-responding, measuring relative humidity, temp, DT, GPP.

### Thermo-Hygrometer

The Ligno-DuoTec BW has a 3.5mm stereo jack mounted in the top of the meter to connect the RH Thermo-Hygro probe (adapter with probe). As soon as the connection is established, the Ligno-DuoTec automatically switches into RH mode and indicates values for RH, Temp, DewPT, GPP. The display also indicates the individual 3-digit probe number to allow keeping track of probe measurements and performance.

### 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.

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

## Ligno-DuoTec BW Meter Specifications

Calibration Stability: The Ligno-DuoTec BW has proven to be a trustworthy pinless and RH meter. The calibration for pinless measurements is checked internally before each measurement and if necessary, automatically adjusted. These “background checks” before measurements assure calibration consistency for every reading for Lignomat’s pinless meters. Manual re-calibration by the customer is not necessary. Lignomat offers an external calibration check block TS for scan to confirm the accuracy of the meter.

A pinless advantage: Pinless meters from Lignomat measure lower moisture contents than pin meters. A feature specifically valued by the flooring industry in areas with low relative humidity and high desert climate zones.

Size: 4.75"L X 2.5"W X 1"H
Measuring Range:
- Wood: 5-60%, dependent upon wood species, lower for hard woods, less accurate above fiber saturation point at about 25%.
- Gypsum, Sheetrock, Wall Boards (water resistant, interior, exterior): 0-7%
- 3 Reference scales including a scale for concrete: 0-99

Display: Resolution: 0.1 for entire range
Automatic calibration check, pinless
Built-in 3.5mm stereo connector for RH Thermo-Hygro probe

### Species Corrections

over 90 settings to correct for:
- domestic and tropical wood species
- bamboos, vertical, horizontal and strand
- laminates and wood-based panel products
- drywall, gypsum, wall boards

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

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

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### Specifications RH Thermo-Hygro Probe:

RH: +/-2% (10-90%), +/-3% below 10%, above 90%
T: +/- 0.5°F (32-120°F) , +/- 1°F (5-32°F and 120-160°F) Response time 8 sec.
Resolution for RH and T: 0.1% and 0.1°.
Includes 1 RH BluePeg and 1 RH Adapter

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

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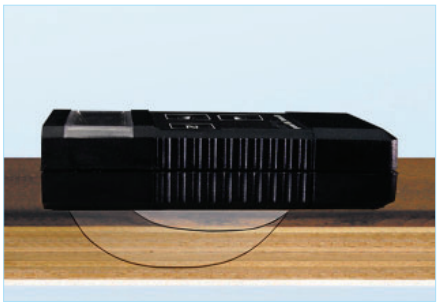
## Package Includes

1 Ligno-DuoTec BW meter with connector for RH probes / RH cables
1 9V battery
1 laminated wood group card and 1 instruction manual
1 RH BluePeg probe
1 RH adapter, 1 RH cable



Measuring depth matters.

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

A RH cable is included with each BW-B package to place probe in hard-to-reach areas.

Allows measuring within walls, behind insulation.

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

Package BW-KS for moisture testing of concrete using in-situ RH probes (ASTM F2170)

# 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.