

LignoTec RH Package (File: LignoTec RH Package)

1. The Ligno-Tec RH can be used as a **thermo-hygrometer** to check air conditions.
2. Add RH BluePeg Probes plus sleeves for **in-situ concrete moisture testing**.

The Ligno-Tec RH is a great meter for contractors, who only need to perform in-situ probe testing or use the meter as a precision Thermo-Hygrometer. For flooring contractors or inspectors we offer the Ligno-DuoTec BW (RH and non-invasive meter) or the Ligno-VersaTec (RH, non-invasive and pin meter).

1. A Relative Humidity and Temperature Meter – with RH BluePeg Probe

For measuring **indoor air quality**, the meter can be connected to the RH BluePeg probe. Relative humidity, temperature and dew point and GPP measurements are available once the probe is connected. (Ligno-DuoTec BW, 1 Adapter H, 1 RH Bluepeg Probe)

2. A RH Meter for in-situ Probe testing in Concrete Slabs

The RH BluePeg probe can be used for measuring moisture evaporation from concrete slabs and other solid materials - even insulation. The probe can be embedded into the material and absorbs the evaporation from the material surrounding the probe. The National Wood Flooring Association highly recommends the **RH in-situ probe test** for determining moisture in concrete slabs. Numerous manufacturers of resilient floor coverings and coatings are also recommending the RH test and give guidelines for permissible relative humidity values. ASTM F2170 describes the standard test method for determining relative humidity in concrete floor slabs using in-situ probes.

(Ligno-Tec RH Package listed below)

Features:

- Large LCD display indicates RH, Temp, DewT, GPP.
- Durable, rugged design and easy operation
- Built-in wood species corrections including bamboo
- 3 Scales for building materials
- Connector for relative humidity and temperature RH BluePeg probe
- Individual Serial Number for RH BluePeg Probes is indicated to the left of the display.
- A great feature to keep track of multiple RH Probes. (See Photo 314#)
- Hold function
- Automatic shut off
- Temperature stable circuitry with built-in calibration check
- 2 year warranty for meters (except batteries)
- 1 year warranty for accessories

Specifications for RH BluePeg Probe:

- Relative Humidity:
 - ±2% for 10-90%
 - ±3% for 0-10 and above 90%
- Temperature:
 - ±0.5°F for 32°-120°F
 - ±1°F below 32°, above 120°F up to 160°F
- Dew Point Temperature and GPP
- Resolution 0.1%

Photo File: RH-LignoTec RH



Photo: LignoTec RH-meter.tif



Photo: RH-RHair.tif



Photo: RH-measuring-concrete.tif

Standard (Contractor) Package for in-situ Probe Testing with Ligno-Tec RH:

- 1 Ligno-Tec RH meter, 9V Battery included, carry pouch with belt loop
- 1 RH BluePeg Probe
- 1 RH Cable with Cable-end-cover
- 1 RH Adaptor
- 10 Sleeves with Caps
- 1 Hard-shell Case with foam insert
- 1 Manual
- 2 year warranty for meters (except batteries)
- 1 year warranty for accessories



Photo: RH-Package.tif



Photo: Sleeve-RHProbe-concrete.tif

Accessories for Ligno-Tec RH meter for in-situ RH probe testing

RH BluePeg Probe

The RH BluePeg probe measures relative humidity and ambient temperature. Readings can be obtained by connecting RH Probe to Ligno-Duotec BW: --- for measuring ambient conditions --- for obtaining measurements for insitu moisture testing of concrete.

RH BluePeg Probe Multi-Pack

Since multiple test locations are required to obtain representative moisture data for each test site, leaving several RH BluePeg sensors inside the sleeves cuts down on waiting time for the sensors to be acclimated. Available as 3 Pack, 5 Pack, 10 Pack

Sleeves with Caps 20 Pack: The sleeve is the liner for the test hole, drilled with a 5/8" drill bit. The cap seals the opening. Available lengths are 1.8" and 3".

RH Adaptor: The RH Adaptor can be used for any application where the long RH cable becomes cumbersome to manage. 3.5mm plug on both ends to plug into meter and connect the sensor.

RH Cable: For remote measuring of RH /Temp, not suited for insitu concrete testing.

RH Cable with Cable-end-cover: For in-situ concrete moisture testing. Without moving the probe inside the sleeve, the cable can be easily plugged into the RH BluePeg. The cable-end-cover helps to secure the probe during readings. It also allows unplugging the cable without removing the probe out of the sleeve.

Photo: Accessories-Summary



Photos: Accessories-RH-Cable-sleeve-cover.tif



Accessories: Short-sleeve-extender.tif



If the sleeves have to be cut short, the short sleeve extender allows placing the probe and sealing the probe during acclimation and measurements. The lip of the sleeve still forms a perfect seal between concrete and sleeve.

Photo File: RH-Accessories BluePeg



Photo: Accessories-BluePeg-Probe.tif



Photo: Accessories-10Pack



Photo: Accessories-Sleeve.tif



Photo: Accessories-RH-Cable.tif



Photo: Accessories-Adaptor.tif

Large LCD display indicates RH, Temp, DewT, GPP. To obtain corresponding values push the hold key first and then use up and down keys to scroll through the measurements.

Hard-shell Case:

With foam insert for Ligno-DuoTec BW and RH BluePeg parts

Optional:

Pouch with strap for storage and transportation for Ligno-DuoTec BW and RH BluePeg parts. Pouch is only 11.5" x 6" (28cm x 15cm)



Photo: Accessories-Case-Pouch.tif

Benefits of Lignomat's in-situ RH testing of concrete slabs

Easy to install - Easy to use - Easy to remove for further testing
Reliable and accurate.

Economical: only the sleeve remains in the concrete, the RH BluePeg probe can be removed and reused.

Easy to install:

Once the location has been determined, drill a hole with a carbide drill bit 5/8" (16mm) in diameter using a rotary hammer drill. To accommodate the sleeve, the hole should be 1 15/16" (50 mm) deep.

Clean the area around the hole with a vacuum cleaner and vacuum the dust out of the hole. Then the hole needs to be brushed out and cleaned out again with the vacuum. Repeat this step twice then immediately push the sleeve into hole and cover with a cap.

Easy to use:

Following ASTM F2170-11 guidelines the sleeves have to set for 72 hours. It is not necessary to keep the RH BluePeg Probe in the sleeve for the duration of the 72 hour test period. The regulations state that the probe has to be acclimated enough to show less than a 1% drift within 5 min. This will be accomplished with the Lignomat probes within 1 hour after insertion.

Remove cap, connect cable and push cable-end-cover into place. The rugged fail-proof connector (same as 3.5mm stereo plug) assures easy handling and a reliable connection. Readings can be obtained at any time by connecting meter to RH BluePeg probe. No set up procedure is necessary. When the RH probe is connected the meter gives RH, Temp, DewP, GPP measurements. To obtain the corresponding Temp, DewP, GPP values for the displayed RH value, push the hold key first, then scroll with up or down keys.



Photo: RH-redshirt.tif



Photo: sleeve-sensor-concrete

If further readings are required from the RH probe, remove the cable without removing the probe by pulling the cable about 4cm towards you while keeping the cable-end-plug in place. The cable is now disconnected from the probe. Now, you can remove the cable-end-plug without removing the probe.

Easy to remove:

When the test series is finished, connect the cable to the Probe and pull the RH BluePeg probe out of the sleeve. The RH BluePeg probe is now ready for further testing.

