

Package MPP-M

Applications

Used by flooring inspectors, contractors and water restoration specialists, anyone who needs to investigate moisture conditions in wood floors, drywall, roofing materials and structural elements in the building envelope. With the three electrodes you can always choose the right tool for every moisture measurement application. With this package floor installers and inspectors use the mini-Ligno MD/C with depth electrode to measure sub-floors without removing floor planks. Slim Electrode is included for inspection, construction, restoration and building maintenance, as well as to reach problem areas inaccessible with depth electrode or integrated meter pins. Specialty Electrode is used when deep measurements are necessary in the building envelope.

Advantages

The mini-Ligno MD/C is offered as a low-price alternative to other moisture meters. The measuring range of 6%-25% is still wide enough to cover all applications from woodworking to home construction and home restoration, lumber drying, even measuring firewood. Where moisture detection counts. Adding the Electrode E12 allows accurate measurements up to 2" deep in wood with insulated pins. Adding the Electrode E14-m allows measurements in drywall, wall boards and otherwise unreachable problem areas. Adding Electrode E16 allows measurements in hard building materials such as concrete, tile, or stone.

Description

The DPP: Multi-Use package includes 3 electrodes. The electrode E12 is mainly used to measure wood, wood floors and subfloors, even without removing the floor planks. The slim shape and long pins of the electrode E14-m allow for measuring in corners, under baseboards, around window sills, behind wall cavities, places which cannot be reached with the integral pins of a meter. The electrode E16 is for measuring hard building materials such as concrete, brick, tile or grout that other electrodes cannot easily measure.

Undetected high, low or uneven moisture is often the cause for moisture problems in wood. The electrode E12 allows measuring the moisture gradient between surface and core. True moisture levels can be detected up to 2" deep, even behind wet surfaces. The E12 is the only tool to give accurate measurements at a defined level. Taking numerous readings indicate if a moisture gradient exists. The thicker the wood, the more important core readings become. At least 1/3rd of the board thickness should be penetrated to reach the core. In addition: Pin insertion is easier with the slide hammer especially when measuring hard wood.

The slim shape of the E14-m allows for checking around pipes, below window sills, in wall corners, places where round electrodes or built-in pins from moisture meters cannot reach. With the E14 you can truly track moisture wherever it hides. Adding the 7" long EL pins lets you reach through insulation or under baseboards into structural components. Great for EIFS inspections.

The knob at the end of the handle can be removed and replaced by a paint brush handle or broom stick. Using the paint brush handle allows to extend the reach. You can stay a distance from mold infested areas and still be able to get reliable measurements. Extending the handle with a broom stick makes measuring carpets and carpet padding easy without crouching down. Ceilings can be checked for moisture leakage without a ladder.

When measuring hard materials such as concrete, it is impossible to push the meter pins into the material. Using the two separate posts of the electrode E16 make it easier to insert the pins. Pre-drilling holes may be necessary to reach the desired measuring depth.



Pin meter mini-Ligno MD/C with Electrode E12, E14-m and E16.

Moisture control from drying to finishing assures quality wood products.



In-depth measurements detect unevenly dried wood and help avoid costly mistakes. Used when installing, inspecting floors and for restoration jobs.



For all areas in the building envelope where the meter pins cannot reach or the display cannot be read. Detect moisture where it hides!

Using a pin meter with electrode E16 gives immediate results when measuring concrete. The measurements can show areas of high and low moisture levels. 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.

Measurements obtained from concrete or cementitious materials are reference numbers. Those values become meaningful, when a dry sample piece of the material is available. Measurements can then be compared to the moisture value for dry.

We recommend a distance of 4.5" between the posts for measuring cementitious materials, because moisture values can be very high even for dry conditions. Another advantage for using the dual pin posts.

mini-Ligno MD/C

Quality at a good price. For woodworking, hobbyists and all basic meter uses. Accurate, reliable and affordable, that's what our customers like about the mini-Ligno MD/C.

The functionally designed mini-Ligno MD/C fits comfortably in your hand when measuring and is small enough to carry in a shirt-pocket. The green cap covers the pins during transportation and serves as a handle when pushing the pins into wood. This unique design allows pushing behind the entire meter to insert the tapered pins easily. Each mini-Ligno comes with a set of longer pins for measuring deeper. The longer pins are stored inside the meter. The short pins are ideal for surface or end cut readings and for veneer.

For measurements, push the pins into wood. The unique on-off switch between the pins, turns meter on automatically and bright LED lights instantly indicate moisture percentage.

Meter Specifications

Size: 5.5"L X 2.75"W X 1"H

Measuring Range:

- Wood: 6-25%

Display: Resolution: 1% steps, lifetime warranty.

Calibrated for a wood temp of 70°F (20°C).

A correction table for different wood temperatures is listed in the manual.

Species Corrections

2 settings to correct for

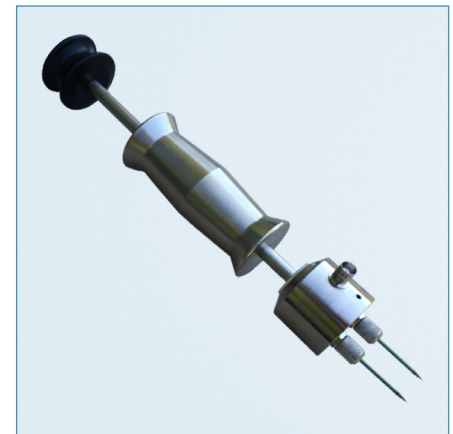
- softwood, hardwood and panel products (%)



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



Bright LED display for optimum visibility. Display has a life-time warranty. Quality, performance and price have made mini-Lignos very popular.



Electrode E12 measures up to 2" deep with insulated pins. Quality control at its best.

Electrode E12 Specifications

Weight 3.5 lbs. Length without pins 12".
The electrode E12 can be connected to

- Ligno-Versatec
- Lignometer K
- mini-Ligno DX/C
- mini-Ligno S/DC
- **mini-Ligno MD/C**

A cable connector (BNC) is mounted at the head of the electrode.

For **mini-Ligno C's**: mini-BNC Cable

E12 pins are teflon coated to only measure at the tip and come in three options:

- DZ Pins insulated, measuring depth 1"
- DA Pins insulated, measuring depth 1.5"
- DB Pins insulated, measuring depth 2"

DB Pins are not included in the package and must be ordered separately.

Electrode E14-m Specifications

Weight 5 oz. Length without pins 7".
The electrode E14-m can be connected to the:

- mini-Ligno DX/C
- mini-Ligno S/DC
- **mini-Ligno MD/C**

The Electrode E14-m comes with a cable with a slit end and 2mm plugs to fit the **mini-Ligno C's**.

EG and **EL** pins are teflon coated up to the electrode handle. Moisture on a wet surface is never picked up, even if the pins are pushed all the way into the material.

- EL Pins insulated, measuring depth 7"
- EG Pins insulated, measuring depth 3/4"

Electrode E16 Specifications

Electrode E16 consists of 2 probes. Each probe comes with EC pin and hole for 4mm connector.

The electrode E16 can be connected to

- Ligno-Versatec
- Lignometer K
- mini-Ligno DX/C
- mini-Ligno S/DC
- **mini-Ligno MD/C**

E16 pins come teflon coated or uncoated depending on the measuring depth. Teflon coated pins only measure at the tip.

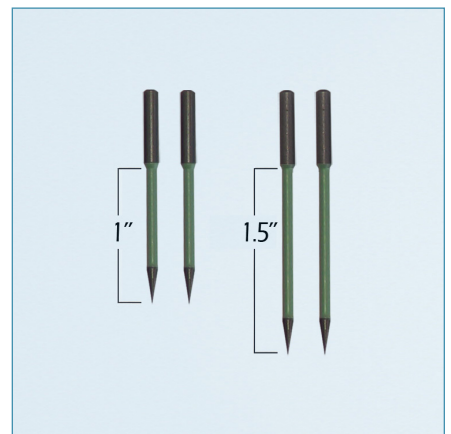
- EL Pins insulated, measuring depth 7"
- EG Pins insulated, measuring depth 3/4"



Inspector Electrode E14-m is designed to reach where moisture hides. E14-m is tough enough to hammer pins into hard materials.



Electrode E16 for hard bldg materials and cement-based panels for
- mini-Ligno C' models



Pins for E12: DZ, DA, pins can only be used with the Electrode E12.
Insulated pins measure only at the tip.

Package Includes

- 1 mini-Ligno MD/C meter with wrist strap in carrying pouch with belt loop
- 1 9V battery
- 1 laminated wood group card and 1 instruction manual
- 2 pair pins: 1 pair of 3/16" and 1 pair of 7/16" measuring depth (5mm, 10mm)
- Built in connector for an assortment of external electrodes and in-kiln probes
- 1 mini-BNC Cable
- 1 slide-hammer electrode E12
- 2 pair pins: 1 pair 1" DA pins and 1 pair 1.5" DZ pins
- 1 inspector electrode E14-m
- 1 pair EG Pins, 3/4" measuring depth (19mm)
- 1 specialty electrode E16
- 1 pair 5/8" EC pins



Selection of Pins for E14-m and E16:
coated EG 3/4" and EL 7"