

Function and Calibration Check for Pin Meters

All pin meters from Lignomat are built with high quality components, micro-processor based, to guarantee stable calibrations for many years of usage. All meters from Lignomat internally check and if necessary adjust calibration before each reading. Pin meters do not need to be re-calibrated. However, the connection to the integral pins, cable and hand probe cannot be checked internally. Step 1-3 listed below are necessary for all mini-Lignos and the Ligno meters (Lignometer K and Ligno-VersaTec)

Before the battery is drained completely and the meter will not give any more values, a warning sign appears in the middle of the display, indicating the battery should be replaced soon.



Function Test: Pin meter functions can be tested for open and closed circuit connections manually.

Calibration Test: Pin meter measurements can be tested for calibration accuracy with check block TP available from Lignomat. Using the external pin calibration check block also confirms that all connections function properly:

- From the tip of the pins to the display (including pins, hand probe or electrode, cable, meter and all connections).

For sensitive testing we recommend using the check block before and after a test series. Every time you check, the indicated value should be within +/- 1% of the test standard. Test block works with all Lignomat pin meters.

Step 1: Open circuit check. Select code # 3 (103) and a wood temperature of 70°F (all mini-Lignos are set for 70°F) First check the meter only. Press the on/read button and a low moisture value should be indicated (For Ligno meters PIN/Min appears on the left side of the display. Next connect the cable. Press the on key again and the same value should be indicated. Last check the meter with cable and electrode (do not touch the electrode pins).



Your equipment passed the open circuit check, if the minimum value is indicated every time.

If that cannot be confirmed

at the first check, the meter is defective.

at the second check, the cable is defective.

at the third check, the electrode is defective.

Step 2: Closed circuit check. Connect meter, cable and electrode. When the on/read button is pressed and the metal tips of both pins are touched with two fingers, a reading higher than at least 12% should be indicated. If that is not the case, disconnect the electrode (electrode may be defective). To check the cable, put your thumb on the open cable end. The cable is ok, if a reading higher than 12% is indicated. If the cable is defective, it cannot be determined if the electrode is also defective.



Step 3: Lignomat offers an external calibration check block TP. The block is used to confirm the calibration of all Lignomat pin meters. Connect meter, cable and electrode. Select code # 3 (103) and a wood temperature of 70°F. Place pins on screws for a value of 12% and 20%. Test confirms that meter, electrode and cable work, and that the calibration is correct.

Note: Step 3 can be done instead of Step 2. However, the open circuit check described in **Step 1 should always be performed**. If steps 1, 2 or 3 fail, either the battery needs to be replaced or the electrode, the cable, or the meter are defective. Contact customer service at 800-227-2105.

