## TechCheck PLUS

#### **MOISTURE METER**

**Owner's Manual** 

Version 2.02

For TechCheck Meters starting with Serial #13560

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#### **GENERAL DESCRIPTION & FEATURES**

Thank you for your purchase of Delmhorst Instrument Co's newly designed **TechCheck Plus** handheld moisture meter. The **TechCheck Plus** offers the latest in features and functionality and is intuitive and easy to operate. We recommend that you read the following pages in detail to take full advantage of all that the **TechCheck Plus** has to offer.

#### Outstanding Features:

- Pin mode
  - Wood scale 6%-60% (Douglas Fir)
  - Drywall scale 0.1% 6%
- Scan Mode
  - Reference scale 0-300
- Other Features:
  - Spanish Language option
  - o Built in back-light
  - Alarm lets you know when your pre-selected moisture level is reached
  - o "Hold" readings on-screen
  - Auto shutoff timer
  - Rugged construction
  - Sturdy plastic carrying case
  - o 9-V Battery included
  - 1 year warranty

## OPERATING INSTRUCTIONS -User Guide-

This guide provides step-by-step instructions on powering up, using and powering down the meter.

#### **NAVIGATION:**

The meter uses an on-screen, menu-driven approach to navigate through the meter features, allowing for an intuitive understanding of keypad functions. Each screen presents the user with a number of selectable options. One of the options is always selected and the user can move (navigate) the selection to any other available option. The keypad is aimed at providing navigational control, and not at accessing specific features. There are four directional keys aligned intuitively around a middle (fifth) key (see Figure 1): Above (UP), below (DOWN), to the right (RIGHT) and to the left (LEFT). The middle key is used to SELECT the option highlighted on the screen. For purposes of this owner's manual, the five keys will be referred to as  $\Leftrightarrow \Rightarrow \hat{\Upsilon} = \emptyset$  and SELECT.

#### **INSTALLING THE BATTERY:**

The battery compartment is located on the underside of the case, at the bottom of the handle.

- 1. Open the battery compartment by sliding the lid back while pressing on the release indent.
  - Ensure correct polarity, and push the battery in flush with the bottom board until the connectors snap together on both sides. Use only Duracell or Energizer alkaline 9V.

3.

4. Replace the battery compartment lid.

#### **LOW BATTERY:**

The meter features a battery status monitor, designed to warn the user as well as protect measurement accuracy from impending battery failure conditions. The battery warning is triggered by either continuous or temporary low voltage conditions. Visible (a battery icon on the top right side of the display) and audible (buzzer warble) indicators accompany a battery warning. Once a permanent low battery condition is detected, all measurement functions are disabled. The battery should be replaced immediately. If the battery reaches critical levels, the meter will refuse to stay on at power-up. This gradual warning system is intended to provide the user advanced battery status notice and give ample time for replacement before operational limitations occur.

NOTE: Current meter settings are not lost during battery replacement or low battery conditions.

#### TO POWER THE METER ON:

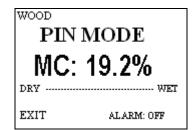
**To turn the meter on, press and hold the SELECT** button for approx. 2 seconds. The first screen will temporarily display the meter name and the software revision level.



#### **METER USE**

#### TO TAKE WOOD READINGS:

- 1. **From the Main Menu**, use the ♣ key to highlight **WOOD**. Then, use the **SELECT** key to enter the **WOOD** screen.
- 2. The meter will display the **WOOD** screen, as shown below:



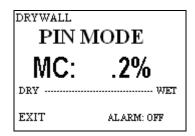
- 3. Push the contact pins into material to be tested. Any Delmhorst electrode may also be used in **WOOD** mode by simply attaching it to the connector next to the contact pins.
- 4. The unit will read %MC on a wood scale between 6% and 60%. At elevated wood temperatures, a reading above 30 percent is valid if the temperature-corrected reading falls below 30 percent. Otherwise, these high readings provide relative comparisons, indicating that the material is taking on or losing moisture.
- To hold a reading on-screen, press the HOLD (SELECT) KEY. Press the HOLD (SELECT) KEY again to return to measuring mode.
- 6. Use the 

  key to highlight EXIT. Then, use the SELECT key to return to the MAIN MENU when finished.

**NOTE:** The **TechCheck Plus** is calibrated to give %MC readings on Douglas Fir. If you are taking readings on other species of wood, refer to the species correction chart.

#### TO TAKE DRYWALL READINGS:

- From the Main Menu, use the 
   ↓ key to highlight DRYWALL. Then, use the SELECT key to enter the pin mode.
- 2. The meter will display the **DRYWALL** screen, as shown below:



- 3. Push the contact pins into material to be tested. Any Delmhorst electrode may also be used in **DRYWALL** mode by simply attaching it to the connector next to the contact pins.
- 4. The unit will read %MC on a drywall scale between 0.1% and 6%.
- To hold a reading on-screen, press the HOLD (SELECT) KEY. Press the HOLD (SELECT) KEY again to return to measuring mode.
- 6. Use the ↓ key to highlight **EXIT**. Then, use the **SELECT** key to return to the **MAIN MENU** when finished.

#### TO TAKE SCAN READINGS:

- 1. **From the Main Menu**, use the û ↓ key to highlight **SCAN**. Then, use the **SELECT** key to enter the **SCAN** mode.
- 2. The meter will display the **SCAN** screen, as shown below:

## SCAN MODE 142 DRY WET EXIT ALARM: OFF

- 3. **You may begin taking readings** by firmly pressing the back of the meter onto the material to be tested. This will display a relative reading that ranges between 0 and 300.
- To hold a reading on-screen, press the HOLD (SELECT) KEY. Press the HOLD (SELECT) KEY again to return to measuring mode.

**NOTE:** The **SCAN** mode will give relative readings only, not %MC. The numbers displayed represent the relative dryness or wetness of the material on a scale of 0 to 300. In order to accurately interpret your readings, first establish a baseline reading by taking a reading in an area you know to be unaffected or dry, then take a reading in the affected or wet area and compare the two readings.

#### TO SET THE ALARM FOR WOOD, DRYWALL, OR SCAN MODE:

- 1. If you wish to set the alarm, to beep after a pre-selected value is reached for **WOOD**, **DRYWALL**, or **SCAN** use the û ↓ keys from the **MAIN MENU** screen to highlight the **ALARM**. Press the **SELECT** key to enter the alarm sub menu.
- The default status of all alarms is "OFF." Press the HOLD (SELECT) key on the desired alarm to turn it on.

ALARM

WOOD: OFF

DRYWALL: OFF

SCAN: OFF

EXIT

- After the alarm is turned on, use the ⇒ key to increase the alarm value, and the ⇔ key to decrease alarm value.
- 4. After you have selected the alarm value, use the ♣ key to highlight **EXIT.** Press the center **HOLD** (**SELECT**) key to return to **MAIN MENU**.
- 5. The chosen alarm value will be displayed on the **WOOD**, **DRYWALL**, or **SCAN** mode screen and an audible alarm will sound if that value is reached.

Note: Default alarm settings are: WOOD - 15% DRYWALL - 1%, SCAN - 300.

#### **MAIN MENU OPTIONS:**

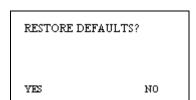
#### ENGLISH / ESPANOL:

This option will toggle the displayed language. Pressing **SELECT** key on this option when displayed as **ESPANOL** will change all displayed meter text to the **Spanish** language. Pressing the **SELECT** key on this option when displayed as **ENGLISH** will change all displayed meter text to the **English** language.

# MENU PRINCIPAL 1. MADERA | S. ENGLISH | 6. DEFECTO | 3. ESCANEA | 7. APAGADO | 4. ALARMA

#### DEFAULTS:

This will delete all defined parameters and readings stored in the meter. The meter will be now set to the factory parameters: English, Wood Alarm 15% and OFF, DRYWALL Alarm 1% and OFF, SCAN Alarm 300 and OFF.



#### OFF:

This menu option will power down the meter.

#### TAKING A READING – PRACTICAL APPLICATIONS

The following application notes are intended for use with the meter in PIN MODE except where otherwise indicated.

#### **TESTING WOOD:**

The integral contact pins (5/16in penetration) on top of the meter are best for wood up to 1-1/2inches (6/4) or drywall. Use the 26-ES electrode on hard materials, wood over 2 inches thick, or for any application where using the insulated pins are needed for best accuracy. The 22-E with 1/2in non-insulated pins is also an excellent option for wood or drywall. Mount the electrode directly to the external connector at the top of the meter.

- ⇒ **To take a wood reading**, align the contact pins parallel to the grain and push them to their full penetration into the wood, if possible. Insulated pins read only at the tip and can be driven to the desired depth.
- ⇒ **Press the SELECT button** and read the moisture content on the meter scale. The meter displays the %MC for two seconds.
- ⇒ Apply species and temperature corrections if necessary for best accuracy. Refer to charts at the back of the manual.

#### PAINT FAILURE AND MOISTURE

Moisture is by far the most frequent cause of paint failure. The key to preventing paint failure is to insure that moisture is not absorbed through the wood to the back of the paint film. So, in order to insure quality paint jobs, wood must remain dry after the application of paint.

Outdoor wood can be safely painted without danger of peeling if the %MC is 15% or less. In drier climates, the maximum reading should be 10% to 11%. Indoor wood should be between 7% and 8% prior to painting.

The following conditions may cause high moisture content in wood:

- ⇒ Leaky gutters and down spouts
- ⇒ Leaky pipes or condensation on cold water lines in attic or hollow walls
- ⇒ Faulty flashing around windows, doors and where porch and dormer roofs meet sidings
- ⇒ End-grain wood that is not sealed with paint at all joints around windows, corners, and butt joints
- ⇒ Porch columns that do not have good drainage and ventilation where they rest on porch floors
- ⇒ Siding or any other wood that is in contact with the ground may absorb moisture
- ⇒ Siding and shingles without sufficient lap so that water is forced up through cracks by wind pressure
- ⇒ Ice dams
- ⇒ Condensation of vapor within hollow walls

#### EIFS (Exterior Insulation & Finish Systems)

Moisture intrusion problems in EIFS (also known as synthetic stucco) stem from leaking window frames, improper use of or lack of sealant, and faulty installation of flashing.

If you suspect a problem take a visual inspection. Look for gaps around windows, doors, air conditioning units, light fixtures, hose bibs, dryer vents and other areas of potential penetration. Also look for visible signs of water damage. If you feel a problem exists, use the **21-E electrode**. This electrode uses the **608 - (4") insulated pins or 608/001 (7") insulated pins.** 

#### Procedure:

- ⇒ **Drill two 1/4" holes** about ¾" apart at an upward 45° angle.
- ⇒ **Push the 21-E Electrode into the holes** through the polystyrene and into the substrate and read the moisture content on the meter scale. When used on materials other than wood, the meter's **PIN** mode will give relative readings only, not %MC. The numbers displayed represent the relative dryness or wetness of the material on a scale of 6 to 60. In order to accurately interpret your readings, first establish a baseline reading by taking a reading in an area you know to be unaffected, then take a reading in the affected area and compare the two readings.

#### TESTING CONCRETE SLABS FOR FLOORING APPLICATIONS

Moisture meters are an effective tool to check comparative moisture conditions in concrete slabs. They can tell you where there may be excess moisture and help determine if you need to conduct further testing, and identify specific areas on which that testing should be performed. Meters do not provide quantitative results as a basis for acceptance of a slab for installation of moisture-sensitive flooring systems. ASTM Test Method F2170 (RH using in-situ probes), F1869 (calcium chloride), and F2420 (RH on surface using insulated hood) provide quantitative information for determining if moisture levels are within specific limits.

It is important to test both the surface and mid-section of the slab, especially if the slab is on or below grade. This will help determine if there is continuous moisture migration toward the surface. If this condition exists, the moisture movement may be so slow that once it reaches the surface, moisture evaporates and causes a "dry" reading when a surface test is made.

However, if a sub-surface test is made, the meter may read "wet" indicating the presence of moisture. When the slab is covered and the upward movement of moisture continues, moisture will move into a hygroscopic (wood) floor, or build-up pressure under a non-breathing synthetic floor, causing delamination.

#### Taking a surface reading:

#### **USING PIN MODE - WOOD scale**

- ➤ **Drive two hardened-steel masonry nails** about 3/4" apart into the finish coat of concrete floor. Drive them about 1/8" deep so they make firm contact with the concrete and do not move when touched.
- ➤ Touch the nails with the contact pins. If the meter reads less than "28", the surface is dry. However, sub-surface tests should be made to verify if the slab is dry throughout.

#### **USING SCAN MODE**

First establish a benchmark by takingreadings in areas that you know are dry, or acceptable. Take readings on areas that are wet. These "dry to wet" readings can be used as reference points against which subsequent readings are compared. Understanding the meter's behavior on a particular material, along with these comparative readings, your experience, and visual clues will all help determine the overall condition. All readings should be evaluated in the light of factors such as type of paint, type of construction, and climatic conditions.

#### Subsurface test:

- > **Drill two 1/4" holes**, 3/4" apart and 1/2" to 2" deep.
- ⇒ **Drive the masonry nails** into the bottom of the holes and make the tests as described above. Nails must not touch sides of drilled holes.

If the meter still indicates a "dry" condition, the floor is ready for covering. Tests should be made at several points, especially when the slab is thick (4" or more) and air circulation is poor. Make tests only in newly drilled holes.

Even readings in the "wet" range can indicate relatively low moisture content in Concrete. For example, readings in the "28 - 35" range indicate approximately 2% to 4% moisture content.

When evaluating a slab for readiness, always consider its age, thickness, whether the slab is on grade or suspended, whether a vapor barrier is present and the drainage condition of the ground.

#### **TESTING INSULATION:**

- ⇒ **Set the meter to the Wood scale**. Remember that when used on materials other than wood, the meter's **PIN** mode will give relative readings only. Establish a baseline reading by taking a reading in an area you know to be unaffected, then take a reading in the affected area and compare the two readings.
- ⇒ **To take a reading**, attach a 21-E electrode with 4" insulated contact pins to the meter. Push the contact pins through the drywall into the insulation behind it.
- ⇒ Press the SELECT button and read the relative moisture level on the meter scale. The meter displays the "relative" moisture level for two seconds.

#### **TESTING DRYWALL**

#### **USING PIN MODE**

- ⇒ Set the meter scale to Drywall
- ⇒ **To take a reading,** push the contact pins into the drywall to their full penetration, if possible.
- ⇒ **Press the SELECT button** and read the moisture content on the meter scale. The meter displays the %MC for two seconds.

#### Note:

Readings between 0.1% and 0.5% indicate a sufficiently dry moisture level. Readings between 0.5% and 1% indicate a borderline situation. Readings greater than 1% indicate material that is too wet for painting or wallpaper. A reading above 1% also indicates enough moisture present to allow mold growth to occur but only if other factors are also present such as a high RH level and food source.

#### **USING SCAN MODE**

You can also take a reference reading on drywall using the meter's **SCAN** mode. **To take a reading**, firmly press the back of the meter onto the material to be tested while in **SCAN** mode. This will display a relative reading that ranges between 0 and 300. Remember to establish a baseline reading by taking a reading in an area you know to be unaffected, then take a reading in the affected area and compare the two readings.

#### **CARE OF YOUR METER**

- Store your meter in a clean, dry place. The protective carrying case provided is an ideal storage place when the meter is not in use. If the meter has been left in a hot or cold environment overnight or for an extended period, the calibration of the pinless mode may be adversely affected. Under these conditions, allow the meter to acclimate to the temperature conditions in which it will be used for minimum 1-2 hours, or as long as possible.
- Change contact pins as needed. Keep pin retainers hand tightened.
- Clean the meter and contact pins with any biodegradable cleaner. Use the cleaner sparingly and on external parts only. Keep cleaner out of the external connector.
- Remove the battery if the meter will not to be used for one month or longer.

#### WARRANTY

Delmhorst Instrument Co., referred to hereafter as Delmhorst, guarantees the TechCheck Plus meter for one year from date of purchase and any optional electrodes against defects in material or workmanship for 90 days. This warranty does not cover abuse, alteration, misuse, damage during shipment, improper service, unauthorized or unreasonable use of the meter or electrodes. This warranty does not cover batteries, pin assemblies, or pins. If the meter or any optional electrodes have been tampered with, the warranty shall be void. At our option, we may replace or repair the meter.

Delmhorst shall not be liable for incidental or consequential damages for the breach of any express or implied warranty with respect to this product or its calibration. With proper care and maintenance the meter should stay in calibration; follow the instructions in the "Care of Your Meter" section.

UNDER NO CIRCUMSTANCES SHALL DELMHORST BE LIABLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES OF ANY TYPE WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS OR DOWNTIME ARISING OUT OF OR RELATED IN ANY RESPECT TO ITS METERS OR ELECTRODES AND NO OTHER WARRANTY, WRITTEN, ORAL OR IMPLIED APPLIES. DELMHORST SHALL IN NO EVENT BE LIABLE FOR ANY BREACH OF WARRANTY OR DEFECT IN THIS PRODUCT THAT EXCEEDS THE AMOUNT OF PURCHASE OF THIS PRODUCT.

The express warranty set forth above constitutes the entire warranty with respect to Delmhorst meters and electrodes and no other warranty, written, oral, or implied applies. This warranty is personal to the customer purchasing the product and is not transferable.



For over 65 years Delmhorst has been the leading manufacturer of high quality moisture meters and thermo-hygrometers. We also offer a wide range of meters for a variety of applications including woodworking/lumber, agriculture, construction, paper, restoration, IAQ and flooring.

510INS-0029 REV 09/14

### **SPECIES CORRECTION TABLE**

SPECIES         7         8         9         10         12         14         16         18         20         22           ALDER         8         9         10         11         13         15         17.5         19.5         21.5         24           APITONG         8         9         10         11         13         15         17         20         22         24           ASPEN         7         8         9         10         11.5         13         15         16.5         18         20           ASH, WHITE         6.5         7.5         8         9         11         13         14.5         16         18         19.5           BASSWOOD         7         8         8         9         10.5         13         15         17         19         20.5           BIRCH         8         9         10         11         13         15         17         19         21.5         23.5           CEDAR, EAST. RED         8         9.5         10.5         12.5         15         17         19         21         23         25           CEDAR, INCENSE         7         8 </th <th>24 27 27 21 21 22 25.5 26 25 26 23</th>	24 27 27 21 21 22 25.5 26 25 26 23
APITONG ASPEN 7 8 9 10 11 13 15 17 20 22 24 ASPEN 7 8 9 10 11.5 13 15 16.5 18 20 ASH, WHITE BASSWOOD 7 8 8 9 11 13 14.5 16 18 19.5 BIRCH CEDAR, EAST. RED CEDAR, INCENSE 8 9.5 10.5 12 14 17 19 21 23 25 CEDAR, INCENSE 7 8 9.5 10.5 12.5 15 17 19 21 23	27 21 21 22 25.5 26 25 26
ASPEN 7 8 9 10 11.5 13 15 16.5 18 20 ASH, WHITE 6.5 7.5 8 9 11 13 14.5 16 18 19.5 BASSWOOD 7 8 8 9 10.5 13 15 17 19 20.5  BIRCH 8 9 10 11 13 15 17 19 21.5 23.5 CEDAR, EAST. RED 8 9.5 10.5 12 14 17 19 21 23 25 CEDAR, INCENSE 7 8 9.5 10.5 12.5 15 17 19 21 23	21 21 22 25.5 26 25 26
ASH, WHITE BASSWOOD 7 8 8 9 11 13 14.5 16 18 19.5  BIRCH CEDAR, EAST. RED CEDAR, INCENSE 8 9.5 10.5 12 14 17 19 21 23 25  CEDAR, WHITE B 9 10 11 13 15 17 19 21 23 25  CEDAR, INCENSE 7 8 9.5 10.5 12.5 15 17 19 21 23	21 22 25.5 26 25 26
BASSWOOD         7         8         8         9         10.5         13         15         17         19         20.5           BIRCH         8         9         10         11         13         15         17         19         21.5         23.5           CEDAR, EAST. RED         8         9.5         10.5         12         14         17         19         21         23         25           CEDAR, INCENSE         7         8         9.5         10.5         12.5         15         17         19         21         23	25.5 26 25 26
BIRCH 8 9 10 11 13 15 17 19 21.5 23.5 CEDAR, EAST. RED 8 9.5 10.5 12 14 17 19 21 23 25 CEDAR, INCENSE 7 8 9.5 10.5 12.5 15 17 19 21 23	25.5 26 25 26
CEDAR, EAST. RED     8     9.5     10.5     12     14     17     19     21     23     25       CEDAR, INCENSE     7     8     9.5     10.5     12.5     15     17     19     21     23	26 25 26
CEDAR, EAST. RED     8     9.5     10.5     12     14     17     19     21     23     25       CEDAR, INCENSE     7     8     9.5     10.5     12.5     15     17     19     21     23	26 25 26
CEDAR, INCENSE 7 8 9.5 10.5 12.5 15 17 19 21 23	25 26
	26
CHERRY 8 9 10 11 13.5 15.5 18 20 22 24	
	23
COTTONWOOD 6 7.5 8.5 9.5 12 14 15 17 19.5 21	
CYPRESS 7 8 9 10 12 14 16 18 19.5 21.5	23.5
ELM, AMERICAN 7 7.5 8 8.5 10 11.5 13 15 16 18	19
FIR, DOUGLAS 7 8 9 10 12 14 16 18 20 22	24
FIR,RED 7 8 9 10 12.5 15 17 19 21 23	25
FIR, WHITE 8 9 9.5 10.5 12.5 15 17 19 21 23	25
GUM, BLACK 7.5 9 10 11 13 15 16 18 19 20.5	22
GUM, RED 7 8 9 10 12.5 14.5 16.5 19 20.5 22.5	24
HEMLOCK, WESTERN 7 8 9 10.5 13 15 17 19 20.5 22	23.5
HACKBERRY 7 8.5 9 9.5 12 13 15 17 18.5 20	22
HICKORY 8 8.5 9 10 11 12.5 14 15.5 17 19	20.5
1/5 D   10   10   10   10   10   10   10	
KERUING 8 9 10 11 13 15 17 20 22 24	27
LARCH 7.5 9 10 11 13 15 17 19 21 23	25.5
MAGNOLIA 7.5 9 10 11.5 14 16 17.5 19 21 22.5	24.5
MAHOGANY, AFRICAN 8 9.5 10.5 12 15 17 19.5 22 24 26	28
(ALSO KHAYA)	
MAHOGANY, HOND. 7 8 9 10.5 12.5 14.5 16 18 19.5 21.5	22.5
MAHOGANY, PHIL. 6 7 7.5 8 9.5 11 13 14 15.5 17	18
MAPLE, HARD/SOFT 8 9 9.5 10 12 14 16 18 20 22.5	25
MERANTI, DARK RED 8.5 9.5 10.5 11.5 12.5 16 18 20.5 22.5 24.5	26.5
OAK, RED 7 8 9 10 12 14 16 18 20 22	24

OAK, WHITE	7	8	8.5	9.5	11.5	13.5	15	17	18.5	20	22
PECAN	6.5	8	9.5	11	12.5	14	16	17.5	19	22	24
PINE, LONGLEAF	8	8.5	10	11	13	15.5	17.5	19.5	21	23	25
PINE, PONDEROSA	7.5	8.5	10	11	13.5	15.5	17.5	19.5	21	23	25.5
PINE, SHORTLEAF	7.5	9	10	11	13	15.5	17.5	19.5	21.5	23.5	25
PINE, SO. YELLOW*	8	9.5	10.5	12	14.5	16.5	19	21	23	25	28
PINE, SUGAR	7	8	9	10	12	15	17	19	21	23	25
PINE, WHITE	7	8	9	10	13	15	17	19	21	23	25.5
	METER READINGS WITH NON-INSULATED PINS										
SPECIES	7	8	9	10	12	14	16	18	20	22	24
POPLAR, YELLOW	8	8.5	10	11	13	15.5	17.5	19.5	22	24	26
RAMIN	7	8	9	10	11	13	15	16	18	20	21
SPECIES	7	8	9	10	12	14	16	18	20	22	24
RADIATA PINE	10	11	11	12	14	16	18	20	23	25	27
REDWOOD	7	8	9	10	12	13.5	15	17	19	22	24
SPRUCE, SITKA	7	8	9	10	12.5	14.5	17	19	21	23.5	26
SPF**	9	10	11.5	13	15.5	18	20.5	23	25	28	30
SPF/COFI	8	9	10	11	13	15	17	19	21	23	25
TEAK	7	8	8.5	9	11	12	14	15		18.5	20
VIROLA	6.5	7	8	9	11	12.5	14	16	18	18.5	20.5
WALNUT, BLACK	7.5	8.5	9.5	10.5	12.5	14.5	16	18	20	22	23.5

The species correction values shown in this chart have been rounded for easy reference.

Lodgepole Pine Alpine Fir

<sup>\*</sup>Meter readings taken with 26-E 2-pin electrode. Do not apply 2-pin correction.

<sup>\*\*</sup>SPF correction based on 2-pin 26-E reading with insulated pins. It is based on USDA/Forintek data and can be used for the following species:

## TEMPERATURE CORRECTION TABLE

		METER READINGS										
°C	°F	6	7	10	15	20	25	30	35	40	50	60
-20	0	9	11	15	22	<mark>31</mark>	<mark>38</mark>	<mark>45</mark>	<mark>53</mark>			
-10	20	8	10	14	20	28	<mark>34</mark>	<mark>40</mark>	<mark>47</mark>	<mark>55</mark>		
5	40	7	8	12	18	24	30	<mark>36</mark>	<mark>42</mark>	<mark>48</mark>		
15	60	6	7	11	16	21	27	<mark>32</mark>	<mark>38</mark>	<mark>43</mark>	<mark>54</mark>	
30	80	6	7	9	14	19	23	28	<mark>33</mark>	<mark>38</mark>	<mark>47</mark>	<mark>55</mark>
40	100	5	6	8	12	17	21	25	29	<mark>34</mark>	<mark>42</mark>	<mark>50</mark>
50	120	5	5	7	11	15	19	22	26	30	<mark>38</mark>	<mark>44</mark>
60	140	4	5	7	10	14	17	20	23	27	34	<mark>40</mark>
70	160	4	4	6	9	12	15	18	21	24	30	<mark>36</mark>
80	180	3	4	5	8	11	13	16	19	22	27	<mark>33</mark>
95	200	3	4	5	7	10	12	14	17	19	24	28
105	220	2	3	4	6	9	11	13	15	17	21	26

Moisture content values shown shaded are only qualitative, since they are above the fiber saturation point.

The temperature correction values shown in this chart have been rounded for easy reference. If you desire a reading closer to your temperature for greater accuracy we have included a temperature correction slide rule. This will give you correction values for your meter readings in small gradual increment.