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This product is covered by EU directive 2002/96/EC (WEEE). For disposal please contact your supplier or local authorities for instructions as to best do so.
J-2000 FEATURES

- Resistance technology recognized worldwide as the most accurate method for measuring moisture
- 6% - 40% moisture range
- Digital readout
- Averages up to 100 accumulated readings
- Built-in correction for 50 different species
- Built-in temperature compensation both Fahrenheit and Celsius
- Proven microcontroller circuit for increased reliability and accuracy
- Easy one-hand operation
- Includes (1) 9-Volt Battery
- Includes a sturdy carrying case
- One year warranty
- For 60 years of proven quality, accuracy and service

BUTTON FUNCTIONS

(1) Read Button - Reads the Percent Moisture Content value (%MC), corrected for temperature and species.

(2) Calibration Check Button - Checks meter calibration. It also displays the average of up to 100 accumulated readings; displays the maximum stored reading; erases the readings.

(3) Species Button - Sets the species code for the wood you are using.
(3) Species button. The species are numbered from 1 to 50 and are listed on the Species Code Chart. This button also acts as a scroll key, depending on the function.

(4) Temperature Button - Sets the wood temperature. This button also acts as a scroll key, depending on the function.

CHECK CALIBRATION

Press the calibration check button #2 and read button #1 simultaneously. Meter is in calibration if it displays 22% (+ or -.2).

If you check the calibration and the meter does not display 22% it is likely an indication of a low battery. If this occurs, change the battery immediately. Continued use with a low battery may cause the meter to go out of calibration. If you have a fresh battery and the instrument still does not indicate a proper calibration, return it to DELMHORST for service. See "Service for Your Meter" section.

When the battery is removed and then reconnected, the meter displays its software version for one second and then turns itself off. After replacing the battery, you must reset the meter as described in "Resetting the Meter" section. We recommend to NOT use rechargeable batteries.
SET SPECIES

The J-2000 /SC defaults to Species Code # 1 – Scandinavian Pine. Because the electrical characteristics of different species vary, all species read differently at the same moisture content. For this reason you need to adjust for species. If you are working with a species other than Douglas Fir, set the species code using the species button (#3), and the meter will make the necessary corrections.

➢ **To change species** press the species button (#3). The meter will display the current species code for one second.

➢ **To scroll forward** through the species list hold the species button (#3) while the current species code is displayed and scroll to the species number desired.

➢ **To scroll backward** through the species list, press and release the species button (#3). Within one second, press and hold the temperature button (#4). Continue to hold the temperature button (#4) and the species number will decrease.

➢ **When scrolling in either direction**, release the button to stop at your desired species.

The J-2000 can be used to test more than just wood. It will also give a relative reading on plywood, OSB, particleboard and MDF or can be fitted with a 26-ES slide hammer for specific applications. Call Delmhorst Europe at +31 736395080 or send an e-mail to info@Delmhorst.eu for information on how to interpret the readings for other materials.
**SPECIES CODE CHART**

<table>
<thead>
<tr>
<th>Code</th>
<th>Species</th>
<th>Code</th>
<th>Species</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Scandinavian Pine</td>
<td>26</td>
<td>Keruing</td>
</tr>
<tr>
<td>2</td>
<td>Scandinavian Spruce</td>
<td>27</td>
<td>Larch</td>
</tr>
<tr>
<td>3</td>
<td>Scandinavian Birch</td>
<td>28</td>
<td>Magnolia</td>
</tr>
<tr>
<td>4</td>
<td>Fir, Douglas</td>
<td>29</td>
<td>Mahogany, African (also Khaya)</td>
</tr>
<tr>
<td>5</td>
<td>Pine, Southern</td>
<td>30</td>
<td>Mahogany, Honduras</td>
</tr>
<tr>
<td>6</td>
<td>SPF</td>
<td>31</td>
<td>Mahogany, Philippine</td>
</tr>
<tr>
<td>7</td>
<td>Alder</td>
<td>32</td>
<td>Maple, Hard/Soft</td>
</tr>
<tr>
<td>8</td>
<td>Apitong</td>
<td>33</td>
<td>Meranti, Dark Red</td>
</tr>
<tr>
<td>9</td>
<td>Aspen</td>
<td>34</td>
<td>Oak, Red</td>
</tr>
<tr>
<td>10</td>
<td>Ash, White</td>
<td>35</td>
<td>Oak, White</td>
</tr>
<tr>
<td>11</td>
<td>Basswood</td>
<td>36</td>
<td>Pecan</td>
</tr>
<tr>
<td>12</td>
<td>Birch, Merbau</td>
<td>37</td>
<td>Pine, Longleaf</td>
</tr>
<tr>
<td>13</td>
<td>Cedar, Eastern Red</td>
<td>38</td>
<td>Pine, Ponderosa</td>
</tr>
<tr>
<td>14</td>
<td>Cedar, Incense</td>
<td>39</td>
<td>Pine, Shortleaf</td>
</tr>
<tr>
<td>15</td>
<td>Cherry</td>
<td>40</td>
<td>Pine, Sugar</td>
</tr>
<tr>
<td>16</td>
<td>Cottonwood</td>
<td>41</td>
<td>Pine, White</td>
</tr>
<tr>
<td>17</td>
<td>Cypress, Sapupira</td>
<td>42</td>
<td>Poplar, Yellow</td>
</tr>
<tr>
<td>18</td>
<td>Elm, American</td>
<td>43</td>
<td>Ramin</td>
</tr>
<tr>
<td>19</td>
<td>Fir, Red</td>
<td>44</td>
<td>Radiata Pine</td>
</tr>
<tr>
<td>20</td>
<td>Fir, White</td>
<td>45</td>
<td>Redwood</td>
</tr>
<tr>
<td>21</td>
<td>Gum, Black</td>
<td>46</td>
<td>Spruce, Sitka</td>
</tr>
<tr>
<td>22</td>
<td>Gum, Red</td>
<td>47</td>
<td>SPF, COFI*</td>
</tr>
<tr>
<td>23</td>
<td>Hemlock, Western</td>
<td>48</td>
<td>Teak</td>
</tr>
<tr>
<td>24</td>
<td>Hackberry</td>
<td>49</td>
<td>Virola</td>
</tr>
<tr>
<td>25</td>
<td>Hickory</td>
<td>50</td>
<td>Walnut, Black</td>
</tr>
</tbody>
</table>
SET TEMPERATURE

The J-2000 defaults to a temperature of 20°C. As wood temperature increases, its electrical resistance decreases and indicated moisture content rises. Lower wood temperatures result in lower indicated moisture content. A correction is necessary if the wood temperature is outside the range of 10°C to 32°C. Set the temperature accordingly and the meter will make the correction.

➢ **To change temperature** press and release the temperature button (#4). The meter will display the current temperature for one second.

➢ **To scroll forward** through the temperature settings, press and hold the temperature button (#4) while the current temperature is displayed.

➢ **To scroll backward** press and release the temperature button (#4). Within one second, press and hold the species button (#3). Continue to hold the species button (#3) and the temperature will decrease.

➢ **When scrolling in either direction**, release the button to stop at the desired temperature.

SET TEMPERATURE MODE

➢ **The meter will display the current temperature setting** and will wait one more second until shutting off so that you may change the temperature value as described above.

In Celsius, the temperature will change in increments of either 2°C or 3°C.

In the Celsius mode, positive values will display in whole numbers; negative values will display with a decimal point and a "-" sign in the left-hand corner. (i.e.: -17.0)
TAKING A READING

The contact pins provided are best for stock up to 6/4. On stock over 6/4 or for hardwoods over 4/4 we recommend using a remote probe such as the 26-ES ram-type electrode. Mount the 26-ES directly to the external connector. See additional information under the “Pin Talk” section.

- **Remove the protective cover** to expose the pins. Check that the contact pins are firmly hand tightened.
- **To take a 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 read button (#1)** and read the moisture content on the meter scale. The meter displays the %MC for two seconds.
- **To add a reading to the sum** of all the previously stored readings, release the read button (#1) within 2 seconds.

INFORMATION ABOUT YOUR READINGS

Readings below 6% will be displayed as a numeric value, (-##.#), and will not be added to accumulation. A reading below 6% which is due to temperature and species adjustments will be shown as a numeric value with no minus sign and this reading will be added to the accumulation.

The meter will overrange at “40” The overrange indication is a blinking (40). Readings above 40% are not added to the accumulation.

The meter will accumulate up to 100 readings. After all 100 readings are stored it will not add new readings until the memory has been cleared. It will also continue to display the average of all 100 readings as a reminder that the memory is full.

When taking and storing readings for a specific wood species, be sure to “clear” the meter before moving on to the next species if you do not want to group all of the readings together.
TO CHECK ACCUMULATED READINGS

This feature allows you to view the total number of all accumulated readings, the average of those readings, and the highest stored reading.

- **To view the readings** press and release the calibration check button (#2). First the meter displays the number of accumulated readings for one second, then the average of those readings for two seconds. Then it displays the highest stored reading for two seconds. The total "cycle" time is five seconds.

- **To erase readings** hold the calibration check button (#2) down for 5 seconds. All accumulated readings will be erased and the meter will display "0".

TO RESET METER

- **Press and release** the calibration check button (#2).

- **Within one second** press the species button (#3).

- **The meter will reset itself** and display in order "120" = #1 (Scandinavian Pine), "10" (model ID), "1.5" (Firmware Version 1.5) and "22" (±0.2 Calibration Check)
CARE OF YOUR METER

To keep your meter in good working order:

✓ 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.
✓ Change the 9-Volt battery as needed. Continued use with a low battery may cause the meter to go out of calibration.
✓ Change contact pins as needed. Keep pin retainers hand tightened.
✓ Clean the meter, contact pins, and probes with any biodegradable cleaner.
✓ Use the cleaner sparingly and on external parts only. Keep the cleaner out of the external connector.
✓ DO NOT IMMERSE THE METER OR ANY ELECTRODE IN WATER.
✓ Remove the battery if the meter will not be used for one month or longer.

SERVICE FOR YOUR METER

✓ Pack your meter securely. Enclose a purchase order or letter with a brief description of the problem.
✓ There is no need to call us for a return authorization number if you are within the EU. Customers outside the EU must contact us for more specific instructions prior to returning a meter.
✓ Include your name, address, daytime phone and fax numbers or e-mail address. If you believe the meter is under warranty, please provide the original sales slip or invoice.
✓ Ship via UPS, Express Mail, Priority Mail or any overnight courier who provides prompt service. Do not use standard parcel post.
✓ Insure your instrument for its full value and ship prepaid. We are not responsible for damage in transit.
✓ We do not accept COD shipments or cover any incoming freight or duty charges on returned merchandise.
✓ Turnaround time on repairs is approximately two weeks.
✓ We will call you with an estimate if you specifically request one, or if we determine that the meter may be too costly to repair.
✓ Non-warranty repairs will be returned via UPS/COD unless you have already established other payment terms. There is no COD service outside the EU.
✓ Payments have to be made by Bank transfer prior to the return shipment. A proforma invoice will be raised in advance.
✓ Warranty repairs will be returned at no charge if shipped within the EU via UPS Ground Service. Freight charges for expedited services (i.e., Federal Express, UPS/2 Day, UPS/1 Day, etc.) are the customer’s responsibility and will be charged as per the above terms.
WARRANTY
DELMHORST EUROPE, referred to hereafter as DELMHORST, guarantees your moisture meter for one year from date of purchase and any optional electrodes against defects in material or workmanship for 90 days. If, within the warranty period of the meter, you find any defect in material or workmanship return the meter following the instructions in the “Service for Your Meter” section. This limited 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 the 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.

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For already 65 years, Delmhorst is a leading brand for high-quality resistance moisture meters. Today the Delmhorst range consists of a complete line of portable moisture meters for a variety of different applications including woodworking / lumber, agriculture, construction and paper.