

Delmhorst Instrument Co.

Model RDM-2S
Owner's Manual

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INTRODUCTION

Congratulations on having purchased one of the finest Wood Moisture Meters available today! The RDM-2S incorporates a versatile microprocessor-based circuit and has been designed to meet high quality standards in both its manufacture and performance. Proper use and care of the instrument will result in many years of reliable service. Please read these instructions carefully before proceeding. If you have questions at any time, call Delmhorst Instrument Co. at (800) 222-0638 for prompt assistance.

RDM-2S FEATURES

- Dot-matrix “supertwist” display with backlight makes it easy to read the meter in low light conditions
- On-line display of species, temperature, and % MC
- Real time clock/calendar
- Maximum storage of 3000 readings which can be separated in up to 100 user defined “batches”.
- Statistics – average, standard deviation, co-efficient of variation, minimum/maximum
- RS-232 serial interface to generate reports through a PC or printer
- Software based species and temperature corrections
- Scrolling feature for easy selection of functions
- Recall/Erase any or all readings
- Available memory check
- Scrolling feature makes it easy to select species and temperature
- Auto shut-off timer
- Re-chargeable battery with charger

SPECIFICATIONS

Size:	7½” x 4” x 2¼”
Weight:	14 oz.
Battery:	(1) 9 volt Nicad (Eveready CH-22 only) Alkaline may also be used
Range:	*4.5% - 60% wood M.C. for Douglas Fir at 70°F (See note below)
Resolution:	0.1% MC
Operating Temperature:	30°F - 120°F; 0° - 50°C
Temperature Compensation:	-20°F – 260°F; -28°C – 126°C
Species Corrections:	33 species plus 0-100 reference scale
Default Settings:	70°F, Douglas Fir, 2-Pin Electrode (w/insulated pins)

Note: Range/Valid Readings

Readings below 4.5% or above 60% are displayed as “-LO-“ or “-HI-“, respectively (and stored as such).

However, since the resistance of the wood also depends on the species and temperature of the wood, the meter may not always be able to read down to 4.5%. For different species and different wood temperatures, there is a minimum % MC limit below which the meter can not read. All readings below this “Lowest Limit” are displayed with a BLINKING CURSOR next to a MOISTURE VALUE and stored as “-LO-“. These readings are not considered valid readings and are NOT USED by the meter for any statistical calculations.

A VALID READING is displayed with a “%” sign next to its MOISTURE VALUE and stored as such.

TO TURN THE METER “ON”

Press the **ON/OFF** key, or any key in the far left column of the keypad. The meter will display the model and software version, followed by the current settings for species and temperature along with the moisture value. This will be referred to as the “normal mode”.

TO TURN THE METER “OFF”

Press the **ON/OFF** key. All meter settings and data will remain in memory provided the battery is not completely discharged.

TO SET THE CLOCK/CALENDAR

The RDM-2S is equipped with a REALTIME CLOCK/CALENDAR which must be set after installing a battery.

1. Press the **7/CLOCK key**. The meter will display **TIME** and **DATE**.
2. Press **ENTER** within 5 seconds.

Note: The meter allows 3 seconds to enter the new information in each step below. After 3 seconds the display moves to the next step.

3. Enter the **HOUR** (from 1 – 12) and press **ENTER**.
4. Enter the **MINUTE** (from 0 – 59) and press **ENTER**.
5. Enter 1 for AM or 2 for PM and press **ENTER**.
6. Enter the **MONTH** (from 1 – 12) and press **ENTER**.
7. Enter the **YEAR** (from 0 – 99) and press **ENTER**.

The meter will now display the new TIME and DATE for 5 seconds (repeat steps 2 through 8 to re-enter the TIME/DATE if required) and then return to the normal mode. The clock will keep current as long as battery voltage is sufficient, even after the meter is turned off. Removing the battery or letting it drain completely will require resetting the CLOCK/CALENDAR.

TO CHANGE ELECTRODE CALIBRATION, 2-PIN/4-PIN

The basic factory calibration of the RDM-2S is for a 2-pin electrode (26-E). Two pin electrodes read lower than 4-pin electrodes (4-E). The difference is small below 10% MC, it increases as the moisture content increases. When using a 4-pin electrode the user can change the basic calibration to compensate for this difference as follows:

1. Press the **3/*** key twice. The meter will display **Use * Key As "Store" Key? Followed by Change Electrode Type?**
2. Press **ENTER** to change to 4-pin. Meter will display **New Electrode Type 4-Pin.**
3. Use the same procedure to change back to 2-pin.

NOTE: Every time the meter is turned on, it automatically selects the 2-pin electrode type.

TO CHECK CALIBRATION

The RDM-2S has an internal calibration check to insure the user's full confidence that the meter is electrically correct.

1. If the electrode is attached to the meter, disconnect it.
2. Press the **-/CHECK** key. The meter will display **Cal.Check Value = 20.0**. A tolerance of ± 2 is acceptable. If any other value is displayed, recharge the battery. If the meter still does not calibrate, return it to Delmhorst for recalibration.
3. The temperature, species and electrode settings do not affect the internal calibration checkpoint.

NOTE: If Using An External Standard, MCS-1 To Check Calibration, Set The Temperature To 70°F, The Species To "1" Douglas Fir And Electrode Setting To 4-Pin Regardless Of Whether You Are Using A 2-Pin Or 4-Pin Electrode. If The Meter Is In Calibration It Should Read "12%" And "22%" $\pm .5$.

AUTO SHUT-OFF TIMER

To save battery life the meter is equipped with a 4 minute auto shut-off timer. When the meter is turned on, the timer is activated and remains on for 4 minutes. Each reading of 8% or higher, or any keypad action, reactivates the timer for another 4 minutes. The meter shuts off automatically if it does not see a reading of at least 8%, or if there is no keypad activity for 4 minutes.

The timer is automatically deactivated during **RECALL** and **PRINT** modes.

The user may deactivate the timer:

1. Press the **8/TIMER** key.

2. The meter will display **4-Minute Timer Is Off**. The timer will now be deactivated and the meter will stay on until the **ON/OFF** key is pressed.

Reactivate the timer:

1. Press the **8/TIMER** key.
2. The meter will display **4-Minute Timer Is On**.

Note: Each time the meter is turned on, the timer is also turned on.

TO SET THE BATCH NUMBER

The RDM-2S can store up to 3000 readings in up to 100 sets called **Batches**. The batches are numbered from 1 to 100 and can be selected at random. There is no limit to the number of readings per batch as long as the total readings of all the batches do not exceed 3000.

1. Press the **BATCH** key. The meter will display the active batch number. Then the meter will ask for the new batch number.
2. Enter the new batch number (from 1 to 100) and press **ENTER**.

-OR-

3. Press either the arrow key or “scroll” to the desired batch number. When the correct one is displayed, press **ENTER**.

The active batch number, as well as all information stored, will remain in memory after the meter is turned off as long as the battery voltage does not fall below 3 volts.

TO SET THE SPECIES

The RDM-2S has 33 different species programmed plus a 0-100 reference scale for comparative readings on non-wood hygroscopic materials. Each batch has its own species setting and changing the setting of one batch will not affect the settings of other batches.

1. Set the desired batch number.
2. Press the **4/SPEC** key. The meter will then ask for the new species code.
3. Enter the code (from 0– 33) for the desired species, if known, and press **ENTER**.

-OR-

4. Scroll through the species list with either arrow key and press **ENTER** when arriving at the desired species.

The new species for the active batch is set and will appear on the display when the meter is in the normal mode.

TO SET THE TEMPERATURE

The RDM-2S is programmed to compensate the meter reading for the WOOD temperature. Each batch has its own temperature setting and changing the setting of one batch will not affect the settings of other batches. The wood temperature range is from –20 to 260°F (-28 to 126°C).

1. Set the desired batch number.
2. Press the **1/TEMP** key. The meter will display the temperature mode (FAHRENHEIT or CENTIGRADE) and then ask for the new temperature value. Change the temperature mode by pressing **ENTER**, before pressing any other key.
3. Enter the new temperature value. Press the **-/CHECK** key for negative values before entering any number. Press **ENTER**.

-OR-

4. Scroll through with either arrow key and press ENTER when arriving at the desired value. Each time an arrow key is depressed, the temperature value increases or decreases by 5°F (2 or 3°C).

The new temperature for the active batch is set and will appear on the display when the meter is in the normal mode.

TO STORE READINGS

1. Set the desired batch, species and temperature.
2. Drive the electrode pins into the wood to the desired depth and parallel to the grain. Press the **STORE** key. The meter will announce that the reading has been stored in batch #xxx, sample #yyy. Readings of –LO- and –HI- will be stored and displayed as such but will not be used in statistical calculations. (Please also read note on page 2).

The meter also stores the TIME/DATE of the first reading (beginning TIME/DATE) and last reading (end TIME/DATE) of a batch and prints them along with statistical data. It does not store TIME/DATE of each reading.

The keypad has been designed with the assumption that the user will hold the meter (and STORE readings) with the left hand. If the user prefers to hold the meter with the right hand, the **3/*** key can be programmed to use as a STORE key.

Press the **3/*** key. Press **ENTER** when the meter displays **Use*Key As Store Key?** Now both **STORE** key and **3/*** can be used to “store” readings. When the meter is turned off, the

STORE function on the **3/*** key is lost and must be reprogrammed when the meter is turned on.

NOTE: When the **3/*** key is programmed to **STORE**, the other functions which are accessed through this key, are not available. These functions are **Change Electrode Type?** and **Battery Voltage?** and must be accessed before programming the **3/*** key to **STORE**.

TO CHECK STATISTICS OF A BATCH

Press the **STATS** key. The meter will display:

BATCH xxx (x and y indicate numerical values)
SAMPLE CNT yyy

Followed by:

VAILD SAMP. = xxx
AVERAGE = yy.y

Followed by:

STD. DEV. = xx.xx (standard deviation)
COV = yy.yy (co-efficient of variation)

Followed by:

MAXIMUM = xx.x
MINIMUM = yy.y

If a batch is empty the meter will display **No More Samples In Batch xx**. If there are no valid samples stored (readings with “%” sign) the meter will display **No Valid Samples In Batch xx**.

Standard Deviation is a statistical parameter which gives the user, in one single figure, an indication of the “range” of readings which make up the **AVERAGE**. The lower the standard deviation, the closer all readings are to the average, indicating a uniform distribution of moisture content throughout the batch or load.

Cov or co-efficient of variation is a term used to express the standard deviation as a percentage of the average. Its values are between 0.0 and 1.0 and again, a low **COV** would indicate a more uniform distribution of moisture.

TO RECALL READING(S) OF A BATCH

1. Set the desired batch. Press the **9/RECALL** key. The meter will display the batch number and sample count. Then it will display **(1) Recall Last (2) Recall All**. Press **1** to recall the last reading only. Press **2** to recall all readings of the batch. To interrupt the sequential recall at any time, press **ENTER**. The meter will ask: **Stop Recall?** Press **ENTER** if you wish to stop. The meter will then return to the normal mode.

2. If neither **1** nor **2** are pressed within 5 seconds, the meter will ask **Recall Selected Reading?** If you want to recall a reading from a specific location, press **ENTER**. The meter will display **Enter Location Number -** . The user must then enter a location number and press **ENTER**.

TO CHECK MEMORY CAPACITY

1. Press the **5/MEM** key to check the number of readings and batches stored.
2. After the number of readings and batches are displayed the meter will ask **Show Batch Count?** Press **ENTER** if you want to see the individual sample count of each batch which will be displayed at one second intervals.

TO ERASE READING(S) FROM A BATCH (OR ALL BATCHES)

The user can erase either the last reading or all readings of a batch. All readings of all batches can also be erased simultaneously.

1. Set the desired batch. Press the **6/CLEAR** key. The meter will display the batch number and sample count. Then it will display **(1) Erase Last (2) Erase All**. Press **1** to erase the last reading only. Press **2** to erase all readings of the batch.
2. If neither **1** nor **2** are pressed, the meter will ask **Erase All Batches?** Press **ENTER** if you want to erase all readings of all batches.

TO RESET THE METER

Use this function to reset the meter (all batches) to its nominal (default) settings; 70°F, Douglas Fir, 2-pin electrode.

1. **CAUTION! THIS FUNCTION ERASES ALL STORED READINGS!**
2. Press **0/RESET**. The meter will display **Reset The Meter? (press ENTER)**. Press **ENTER**, the meter will then display **Meter Is Reset**.

The CLOCK/CALENDAR will not be affected by the **RESET** action.

RS-232 SERIAL INTERFACE

All data stored in memory for each batch can be reproduced into useful quality control reports when the RDM-2S is connected directly to a PC, serial printer, or parallel printer.

TO INTERFACE RDM-2S WITH A PC

Requires RDM-2S, AP-1 Application Program. PC Cable #315CAB-0027 25pin (or #315CAB-0026 9-pin), IBM PC or compatible.

1. Connect one end of the interface cable to the serial port(COM1 or COM2) of the PC and the other end to the DIN connector which is located on the upper left side of the RDM-2S.
2. Boot the PC and click the 'Start' button.
3. Then click 'Run.'
4. Click the 'Browse' button.
5. Select your CD-ROM drive.
6. Select 'setuprdm.exe'.
7. Click 'OK'
8. The setup program will now run prompting the user for install directory and program group. To install with the default options, just click 'Next' until completion.
9. After installation is complete, an icon will be placed on the desktop. Double clicking the icon will start the application.

NOTE: The RDM-2S must be connected AND turned ON before starting the application.

Obtaining Data

Data may be obtained three ways. By way of individual sample, individual batch, or all batches. The first way presents data to the screen while the other two save the results to files.

1.

To obtain an individual sample, the user need simply type the desired sample number in the 'Sample #' box and click 'Read Sample'. This will obtain the desired sample number of the current active batch.

2.

To download an individual batch, the user need simply type the desired batch number in the 'Batch #' box located nearest the 'Download Individual Batch' box and click 'Download Individual Batch'. The user will then be prompted to enter a minimum and maximum moisture content value (to the nearest whole %) desired for statistical calculations and histogram range. Then click 'OK' and the download will commence. When the download is complete, the user will be prompted with a save file window to specify the desired name and location of the saved data file. A second file with histogram information will also be saved in the same location with the same filename with the addition of an 'h' to the filename.

Example:

If you saved the data file as '**c:\test\test.csv**' the histogram file would be '**c:\test\testh.csv**'

Both files can be opened and viewed with Microsoft Excel or any spreadsheet application supporting the CSV file format.

3.

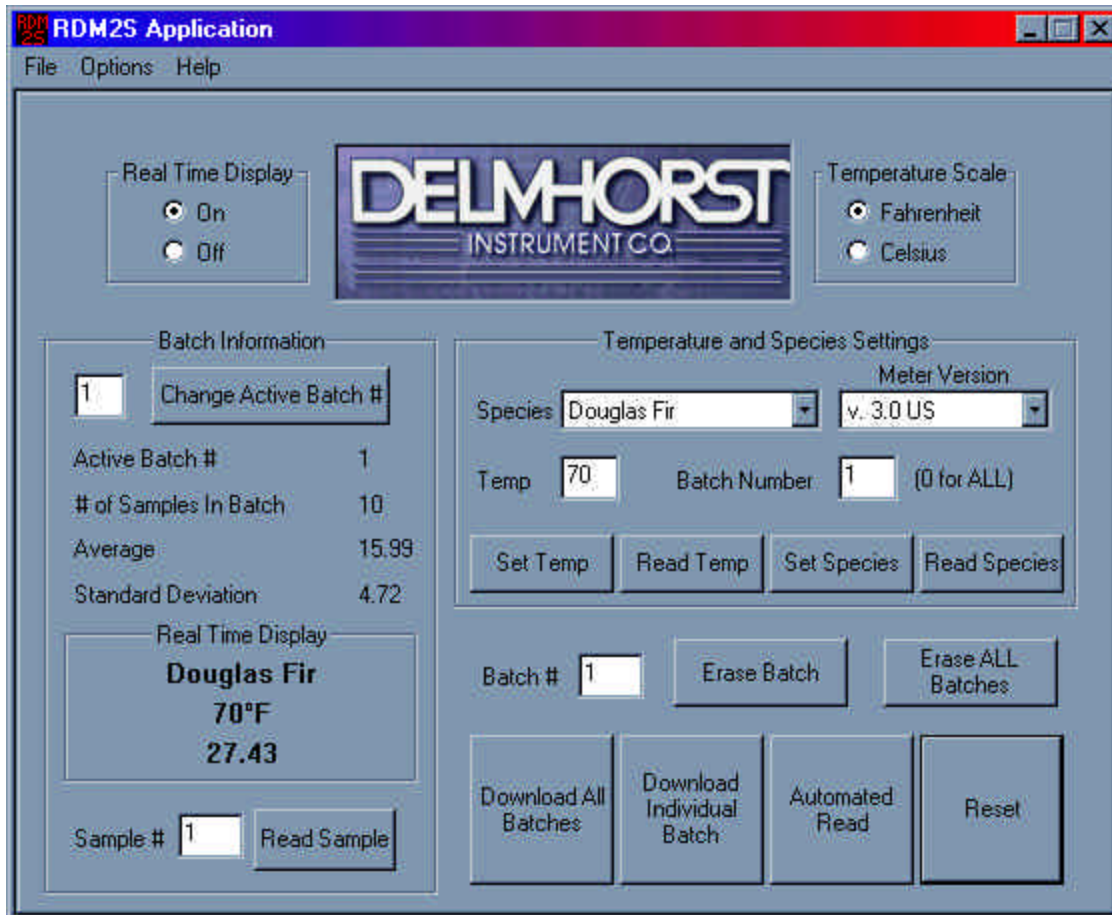
To download all batches, the user need simply click 'Download All Batches'. The user will then be prompted to enter a minimum and maximum moisture content value (to the nearest whole %) desired for statistical calculations and histogram range. Then click 'OK' and the download will commence. When the download is complete, the user will be prompted with a save file window to specify the desired name and location of the saved data file. A second file with histogram information will also be saved in the same location with the same filename with the addition of an 'h' to the filename.

Example:

If you saved the data file as '**c:\test\test.csv**' the histogram file would be '**c:\test\testh.csv**'

Both files can be opened and viewed with Microsoft Excel or any spreadsheet application supporting the CSV file format.

FRONT PANEL



Real Time Display

On- This button is used to turn on the real time display mode.

Off- This button is used to turn off the real time display mode.

Temperature Scale

Fahrenheit- This button puts the meter in Fahrenheit Mode and converts temperatures if necessary.

Celsius- This button puts the meter in Celsius Mode and converts temperatures if necessary.

Batch Information:

Change Active Batch #- This button will change the Active Batch Number to the desired batch specified in the box. The settings (temperature and species) and statistics will be updated to reflect the new active batch.

Temperature and Species Settings:

Set Temp-This button will set the requested batch with the specified temperature in the Temp box.

Meter Type- Select your meter type in this drop down box. Selecting Meter type will allow the correct species list to be loaded for your meter.

Set Species- This button will set the requested batch with the specified species from the drop down selection box. Species selection is based on selected Meter Type.

Read Temp-This button will read the current temperature setting for the specified batch.

Read Species-This button will read the current species number setting for the specified batch.

Read Sample- This button allows you to read the Moisture Content % for the specified sample number for the current active batch. The result is displayed to the screen.

Erase Batch- This button will erase all samples from the specified batch from the batch number box.

Erase ALL Batches- This button will erase all samples from all batches.

Download All Batches- This button will download all samples from all batches and save the results to a file as well as statistical and histogram information. Please See 'Obtaining Data' in the 'Getting Started' Section for more information.

Download Individual Batch- This button will download an individual batch specified in the 'batch #' box. The results will be saved to a file along with statistical and histogram information. Please see 'Obtaining Data' in the 'Getting Started Section for more information.

Automated Read- This button will only work while in Real Time Mode. It will bring up a new window prompting the user for a specified time interval and a number of readings limit. More information on Automated Read can be found in the 'Automated Read' Section.

Reset- This button will reset the unit back to it's factory default settings. All batches will be set to a species of Douglas Fir and temperature of 70 degrees Fahrenheit. All batches will be erased. All settings and data will be lost.

TO PRINT REPORTS

Make the proper connections according to your equipment. Then proceed as follows to print the reports:

1. Press the **2/PRINT** key. Provided the printer is READY and the hardware connection is properly made, the meter will display **Print All Stored Batches?**
2. Press **ENTER** if you wish to print all stored batches. The readings, statistics, and histogram will be printed for each batch.
3. To print only a selected range of batches, do not press **ENTER** in step 2, but wait until the meter displays **Enter Starting Batch No. >**. Enter the first batch number and press **ENTER**.
4. Next, the meter displays **Enter Ending Batch No. >**. Enter the batch you want to print last and press **ENTER**.
5. To print only one batch, enter the same batch number in steps 3 and 4.

The meter will display **End Of Printing** at the end of the print job and return to normal mode.

RECHARGEABLE BATTERY

The RDM-2S is supplied with a 9 VOLT NICAD (Everyready CH-22) which provides up to FOUR HOURS OF CONTINUOUS OPERATION (without backlight) when fully charged. Frequent use of the backlight (pushbutton switch at upper left of meter) will decrease operating time.

TO CHECK BATTERY VOLTAGE

1. Press the **3/*** key three times. Press **ENTER** when the meter displays **Show Voltage?**
2. The meter will display **Battery Voltage XX.XV**.

The meter displays **<BAT>** when the battery voltage drops to approximately 7 volts. When the voltage drops to 6.3 volts, the meter displays **Please Recharge The Battery** and turns itself "off".

TO RECHARGE THE BATTERY

1. Connect the meter to the AC adapter provided. Make sure the meter is turned "off" and remains so while recharging. Full recharging takes approximately 14-16 hours. Stored data and integrated clock will remain intact during charging.

-OR-

2. If the battery is not recharged soon after discharging to 6.3 volts, it will be drained completely and then must be recharged only with the external charger and adapter. When using the charger, use the "CHARGE" terminal.

CAUTION!!! ALL STORED DATA WILL BE LOST IF THE BATTERY IS ALLOWED TO DRAIN COMPLETELY.

Battery maintenance tips:

- A. Begin battery charging at the end of the day to allow full charge overnight.
- B. Keep the backup battery fully charged by connecting it to the "STANDBY" terminal of the charger at all times. It is advisable to have a backup battery readily available.

CAUTION !! CAUTION !! CAUTION !!

1. Use Eveready CH-22 Nicad only.
2. Do not overcharge battery for more than the recommended 14-16 hours except for the backup battery which can be left in the "STANDBY" terminal.
3. To remove the battery from the meter without losing the stored data, connect the AC adapter to the meter wand then remove the battery. The adapter supplies enough current to preserve the data but not enough to operate the meter.
4. The charger provided is to be used with the Eveready CH-22 type battery only.
5. A 9-volt ALKALINE battery may be used in place of the NICAD. Do not connect the meter to the AC adapter (or any power supply) as long as the ALKALINE battery is installed. Use of a carbon-zinc battery is not recommended due to its low power capacity.
6. Never attempt to recharge an ALKALINE battery as it may explode.

NOTE: MISUSE OF THE BATTERY AND CHARGER MAY RESULT IN IRREPARABLE DAMAGE TO THE METER CIRCUIT WHICH IS NOT COVERED UNDER WARRANTY.

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.
- Re-charge 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 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

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 U.S. Customers outside the U.S. 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 U.S. To pay by credit card, include the card number and expiration date with your repair. We accept Visa/MasterCard, American Express, and Discover.
- Warranty repairs will be returned at no charge if shipped within the U.S. 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 Instrument Co., referred to hereafter as Delmhorst, guarantees its RDM-2S 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 RDM-2S, 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 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.

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For more detailed information about using a wood moisture meter, call us toll-free at 1-800-222-0638. Ask for your free copy of Measuring Wood Moisture Content: Straight Talk from Delmhorst. Or find it on our web site at www.delmhorst.com.

For over 50 years, Delmhorst has been the leading manufacturer of high-quality resistance moisture meters. Today we offer the innovative KIL-MO-TROL® in-kiln monitoring system and a complete line of portable moisture meters for woodworking/lumber, agriculture, construction and paper.

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SPECIES TABLE

<u>CODE</u>	<u>SPECIES</u>
00	0-100 REFERENCE SCALE
01	DOUGLAS FIR
02	SOUTHERN PINE
03	SPF
04	ASH, WHITE
05	BASSWOOD
06	BIRCH
07	CEDAR, INCENSE
08	CHERRY
09	CYPRESS
10	ELM, AMERICAN
11	FIR, RED
12	FIR, WHITE
13	GUM, BLACK
14	GUM, RED
15	HEMLOCK
16	HICKORY
17	LARCH
18	MAGNOLIA
19	MAHOGANY, AFRICAN
20	MAHOGANY, HONDURAS
21	MAHOGANY, PHILIPPINE
22	MAPLE, SUGAR
23	OAK, RED
24	OAK, WHITE
25	PINE, LONGLEAF
26	PINE, PONDEROSA
27	PINE, SHORTLEAF
28	PINE, SUGAR
29	PINE, WHITE
30	POPLAR, YELLOW
31	REDWOOD
32	SPRUCE, SITKA
33	WALNUT, BLACK