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Notes

1.0 INTRODUCTION

The DHT-2 Textile Moisture Meter accurately measures the percentage (%) of humidity contained in textiles. It can be equipped with different transducers (called "electrodes"), according to the type of material being tested.

1.1 Principle of Operation

When the DHT-2 probe is placed in contact with a textile sample, it measures the electrical conductivity of the material, which varies based upon the type of material under test, and the amount of moisture present.

Next, using one of its 17 built-in, user selectable material measurement scales, the DHT-2 automatically converts the conductivity reading into an accurate measurement of humidity percentage contained in the textile. This measurement appears on the LED display.

If material under test is not included in the DHT-2's built-in measurment scales (see specifications, section 5.1), the absolute value of electrical conductivity (range 0–100) can be converted to a percentage of humity reading using the convervison tables provided in the Appendix.



2.2 Complete Kit

The DHT-2 is shipped with everything you need to begin taking measuremnts, including:

- GaugeElectrode Holder
- 9 Volt BatteryOperating Manual
- Connecton Cable
 Leather Carrying Case

7.0 WARRANTY

ELECTROMATIC Equipment Co., Inc. (ELECTROMATIC) warrants to the original purchaser that this product is of merchantable quality and confirms in kind and quality with the descriptions and specifications thereof. Product failure or malfunction arising out of any defect in workmanship or material in the product existing at the time of delivery thereof which manifests itself within one year from the sale of such product, shall be remedied by repair or replacement of such product, at ELECTROMATIC's option, except where unauthorized repair, disassembly, tampering, abuse or misapplication has taken place, as determined by ELECTROMATIC. All returns for warranty or non-warranty repairs and/or replacement must be authorized by ELECTROMATIC, in advance, with all repacking and shipping expenses to the address below to be borne by the purchaser.

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Some State jurisdictions or States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you. The duration of any implied warranty, including, without limitation, fitness for any particular purpose and merchantability with respect to this product, is limited to the duration of the foregoing warranty. Some states do not allow limitations on how long an implied warranty lasts but, not withstanding, this warranty, in the absence of such limitations, shall extend for one year from the date of invoice.

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3.0 MEASURING PROCEDURE

3.1 Preparation

- 1. Connect the gauge to the electrodes holder using the supplied Connection Cable.
- 2. Unscrew the upper plastic ring of the electrode holder, insert the desired electrode, replace the plastic ring.



3.2 Taking A Measurement

- 1. Press the Power On/Off key.
- Select one of the built-in measurement scales by pressing the < key until the desired material name appears on the display (see photo). For other materials, select the 0-100 scale.



3. Insert the prongs of the electrode completely into the sample.



4. If you are using one of the built-in measurment scales, the percentage of humidity appears on the LED display. For other materials use the conversion scales (see Appendix) to convert the 0-100 reading into a humidity percentage.



4.0 CALIBRATION

Need information on why and when to perform a calibration.

To calibrate the DHT-2, please perform the following procedure:

- 1. Turn the instrument **On**.
- 2. Remove the four fixing screws on the rear of the instrument. Carfully remove the rear of the plastic case and set it aside.
- 3. Locate the 1 K Ohm and 1 M Ohm trimmers. See photo A.
- 4. Connect the reference probe of beginning of the scale (29%) Not sure what this means.



- 5. Use a slotted screwdriver to adjust the 1 K Ohm trimmer until the instrument's LED display reads approimately 30 on the 0 to 100 scale. See photo B.
- 6. Connect the reference probe of the end of the scale (59%). Not sure what this means.
- 7. Use a slotted screwdriver to adjust the 1 M Ohm trimmer until the instrument's LED display reads approimately 59 on the 0 to 100 scale. See photo C.
- 8. Repeat steps 4 and 6 to verify that the display reads 30% and 59%, respectively. If necessary repeat the calibration procedure.
- 9. Replace the back of the plastic case, being careful not to squeeze the probe's wires. Replace fixing screws.







0 10 20 30 40 50 60 70 80 90 100 1 2 3 4 5 6 7 8 9 9,5				
Moisture%				
70 PES / 30 Zw				
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				
Moisture%				
07 FE37 33 BW				
0 10 20 30 40 50 60 70 80 90 100 hulindindindindindindindindindindindindindi				
Moisture%				
65 PES / 35 Zw				
0 10 20 30 40 50 60 70 80 90 100 <u>uninderinderinderinderinderinderinderinde</u>				
Moisture%				

55 PES / 45 Zw



5.0 SPECIFICATIONS

LCD Display	Digital reading of the humidity percentage
Measuring tolerance	±1%
Precision Display Reading	0.1
Repeat Measurement Accuracy	± 0.3%
Dimensions	160x83x30mm
Weigh	300 grams
Power Supply	9V battery Automatic low battery signal Automatic switch off after 2 minutes

5.1 Built-In Measurement Scales

Wool Rayon Cotton Linen Nylon Acrylic Polyester 50% wool / 50% cotton 60% cotton / 40% PES 70% PAC / 30% wool 67% PAC / 33% cotton 70% PES / 30% wool 70% PES / 30% rayon 67% PES / 33% cotton 50% PES / 50% cotton 50%PES / 50% rayon 50% PES / 50% PAC

Conductivity general scale with range 0-100.

5.2 Options

 8 pins electrode length 6 cm for spool and reel 	Cod.185.418
• 2 pins electrode length 10 cm for taw	Cod. 185.414
• 2 pins electrode length 30 cm for cotton and wool bale	Cod. 185.412
• Electrode with rolls for fabric	Cod. 185.416
Calibration kit.	Cod. 185 422
(On request complete with calibration report)	Cod. 185 ccl

6.0 APPENDIX















MOISTURE METER MODEL DHT-2





Operating Instructions