

# TECHINCAL DETAILS

## OF

### *digiMOIST*™

## 1. INTRODUCTION

Every Textile material irrespective of their form (i.e., Fiber, Yarn, Fabric) contains water, which is expressed in terms of moisture regain percentage. Wool has got the highest moisture regain and synthetic fibers contain the lowest moisture. Paramount digiMOIST™ is appropriate to use for checking the moisture regain in direct %.

## 2. EQUIPMENT

Paramount digiMOIST™ (Digital Portable Moisture Meter) measures moisture by sensing the electrical resistance of the hygroscopic material. The sensing can be done with one of the five type of Sensors. The selection of the sensor depends upon the form of the material. Pin type sensors can be used for loose cotton materials cones, cheese. Flat type of sensors can be used for fabrics & Garments. Rollers type sensors can be used for fabric or yarn or web running on the machine. The long probe sensor is specially made for cotton bales. The instrument operates on 230 V AC mains or on battery. When connected to mains the battery gets automatically disconnected. In very humid atmosphere the instrument is likely to show error while no material is held under the sensor. This is due to leakage paths getting developed through the moisture's setting on the components. To avoid this, the instruments can be warmed by plugging it to mains for some time before taking it out for measurement.

The selection of the sensor depends upon the form of the material.

- 1. Pin Type Sensor (Having 2 Small Pins)** : It is used for loose Cotton, Yarn Cones etc.
- 2. Pin Type Sensor (Having 6 Small Pins)** : It is used for loose Cotton, Yarn Cones etc.
- 3. Pin Type Sensor (Having 2 Long Pins)** : The sensor with long pins is used for Cotton, Bales.
- 4. Flat Type Sensor** : It is used for fabrics, garments etc.
- 5. Roller Type Sensor** : It is used for fabric in running condition.



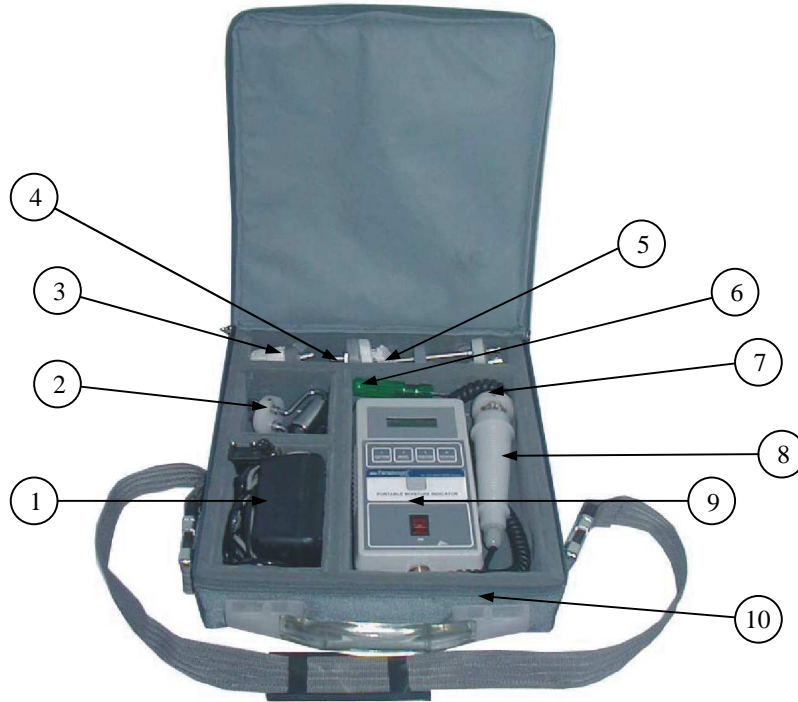
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### 3. DETAILS OF THE MAIN UNIT OF *digiMOIST*™



1. AC Adaptor.
2. Free Running Roller Sensor.
3. Probe Unit having 2 pins.
4. Probe Unit having 6 pins.
5. Long Probe Unit having 2 pins.
6. Screw Driver.
7. Flat surface plate probe.
8. Connector Lead (To connect Sensor with Main Unit).
9. Main Unit.
10. Carrying Case for Main Unit.



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#### 4. DETAILS OF THE ACCESSORIES SUPPLIED WITH *digiMOIST*<sup>™</sup>



Main Unit (Carrying Case)



Main Unit



Long Probe Unit (Having 2 Pins)  
For Bales of Cotton etc.



Small Probe Unit (Having 6 Pins)  
For Loose Cotton Yarn Cone etc.



Small Probe Unit (Having 2 Pins)  
For Loose Cotton Yarn Cone etc.



Flat Surface (Plates) Probe  
For all types of fabric



Free Running Roller  
Probes For Running fabric



Screw Driver



AC Adaptor



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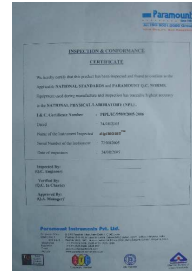
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This User's Manual



Inspection & Conformance Certificate

**digiMOIST™** is Supplied Complete with below Accessories:

- |   |   |         |
|---|---|---------|
| 1. Main Unit with (Carrying Case)                                     | : | 01 No.  |
| 2. Small Probe unit (Having 6 Pins) for Loose cotton /yarn cones etc. | : | 01 No.  |
| 3. Adaptor for charging battery back-up                               | : | 01 No.  |
| 4. Long Probe unit (Having 2 Pins) for bales of cotton etc.           | : | 01 Nos. |
| 5. Small Probe unit (Having 2 Pins) for Loose cotton /yarn cones etc. | : | 01 Nos. |
| 6. Flat surface (Plate) probe for all type of fabric                  | : | 01 No.  |
| 7. Free running roller probe for running fabric                       | : | 01 No.  |
| 8. Flat Screw Driver  | : | 01 No.  |
| 9. This User's Manual   | : | 01 No.  |
| 10. Inspection & Conformance Certificate                              | : | 01 No.  |

## 5. SALIENT FEATURES

- Specialized digital equipment to determine the moisture regain percentage of any textile fibre & fabrics.
- Portable can be carried in a case for spot-checking.
- Five different probes for checking different types of materials.
- The equipment has a wide range 3.5 to 50%.
- Chart supplied with this for calculating the moisture regain % except polyester, cotton, wool & viscose.
- Complete with all accessories.
- Supplied with inspection & conformance certificates.



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## 6. TECHNICAL DETAILS OF *digi*MOIST™

|                               |   |  |
|-------------------------------|---|--|
| Main Unit                     | : | Portable (carried in a case)                                     |
| Mains                         | : | 230 VAC, +/- 10 %, 50 HZ   |
| Batteries                     | : | 12V, 6 Amp., SMF (Chargeable) Battery                            |
| Range                         | : | 3.5 to 50% Moisture  |
| Dual Display                  | : | For position : 01 – 04<br>For moisture : 00.0 – 99.9 %           |
| Overall Dimension of the Unit | : | 180 (L) x 100 (W) x 49 (H) mm<br>7.2” (L) x 4” (W) x 2” (H) Inch |
| Net Weight of the Unit        | : | 700 Gms. (1.54 lbs)  |

**NOTE : With our constant endeavour to improve & excel, we reserve the right to alter the specification or modify the appearance without notice.**



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