

DIGITAL MOISTURE METER

MODEL: DMM B18



125, MAHAJAN SOCIETY, B/H CONVENT SCHOOL,
FATEHGUNJ, BARODA 390 002, GUJARAT, INDIA.

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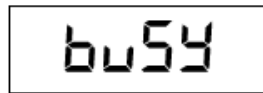
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1. OPERATING PROCEDURE

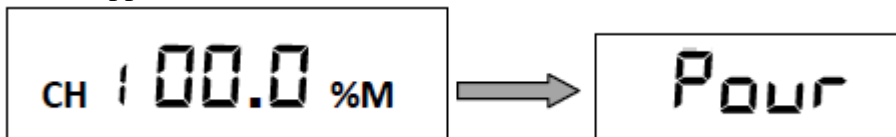
- i. Place meter on a wooden table. Ensure no object is near the meter and no sample is in the cavity.
- ii. Press **ON/OFF** switch. “bU5Y” will blink for few seconds. Do not touch the meter while “bU5Y” is blinking.



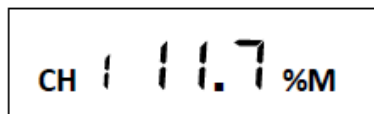
- iii. Wait till “Pour” is displayed.



- iv. Once “Pour” is displayed, press **CHANNEL 1** switch to see that meter displays “CH 1 00.0 %M” when meter is empty. After few seconds meter will automatically display “Pour” if no sample is dropped in meter.



- v. Take the indicated weight or volume of the sample to be tested. Fill hopper with the sample. Weigh accurately as mentioned. For “**FULL**” or “**WEIGHT NOT MENTIONED**”, fill the hopper fully.
- vi. Place the sample filled hopper on meter and drop down the sample in meter cavity **by pressing the lever**.
- vii. **Remove the empty hopper** and keep aside.
- viii. Press the appropriate channel switch to start the moisture measurement. “bU5Y” will blink for few seconds then moisture will be displayed. **DO NOT SHAKE OR TOUCH THE METER WHILE “bU5Y” IS BLINKING ON DISPLAY**



Where “CH 1” indicates channel/switch no., “11.7” is the moisture %.

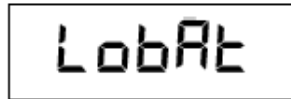
- ix. Once meter is emptied, “Pour” will be displayed after few seconds. Machine is intelligent enough to sense that the sample is taken out and now the cavity is empty. Once meter is displaying “Pour”, next sample can be measured. Repeat from step 3.
- x. The meter gets automatically switched **OFF** after 10 minutes if not in use. Or press **ON/OFF** to switch off the machine.

* Operating Procedure for moisture measurement in Cotton Seed, Rui, Kapas:

- Follow steps i to iv as mentioned above.
- Weigh the sample as indicated on the meter and fill with hand in the meter cavity.
- Gently press the sample with hand until the sample is compressed into the meter cavity.
- Follow steps viii to x as mentioned above.

2. PROCEDURE TO REPLACE BATTERIES

- If “LOBAt” appears on the display on pressing any switch, then there is a need for replacement of batteries.



- The battery compartment is located at the bottom of the meter. Pop up the flap to remove the battery. Insert 4 nos. of fresh battery (**1.5V, AA pencil cell**) with proper polarity.

3. SAMPLE PREPARATION AND HANDLING

This is most important to get the best representative results. The sample taken should be well mixed and its condition should be typical of the total batch. If a sample is to be held for a short time before being tested for moisture content, this should be placed into a tightly closed (air-tight) container such as plastic bag or jar. A sample stored in this manner will not lose or gain moisture. The temperature of air and sample, relative humidity of air and the moisture content of the sample will all work together to determine whether the sample loses or gains moisture. A high moisture sample spread out to air can gain or lose 1% to 2% moisture in only few minutes.

Cold samples when brought into warm atmosphere will condense moisture out of air and cause erroneous readings. Such samples should be sealed in air-tight container before being brought back to warm atmosphere and allowed to warm to room temperature before testing. Similar care should be taken for heated samples also.

Sample with water added externally will show higher moisture than the actual, when tested immediately after adding the water to the sample. Such sample with water added, should be shaken periodically and should be kept at low temperature in a sealed jar for at least 24 hrs. This will ensure the uniform moisture penetration in the sample and then it can be tested in the meter. In any case, free water deposition on sample grain surface should not be entertained for measurement using this meter.

4. WARRANTY

Digital Moisture Meter is guaranteed free from defect in material and workmanship for a period of **1 year** from the date of purchase. This does not cover the battery or damage caused by misuse or negligence or a Digital Moisture Meter repaired or altered by any unauthorised agents. Written authorisation from the factory is necessary before any moisture meter can be returned under the terms of this warranty.

In the event that service is required and authorisation has been obtained, pack the unit carefully and return to factory with transportation prepaid. If the Digital Moisture Meter is returned within the warranty period, this will be sent back to the customer after repair, free of charge. However, component replacement shall be charged. After the warranty period your Digital Moisture Meter will be repaired at the cost of the materials, labour and shipping.