

Textile Moisture Meter

DM200T

1. Applicable scope

Textile moisture meter DM200T is used for measuring Garment, Clothes, Yarn, Leather, Wood and other Textile Materials. The instrument is widely used in spinning factory, textile work, pastureland and other relevant industry.

Work principle:

This instrument adopted the high frequency principle based on the introduction of the most advanced technology from foreign country. In other words, there is a fixed frequency inside the equipment. Once the moisture of the detected objects carried, the frequency through the sensor will be different. The deference between the frequencies will be displayed in figure after the conversion by current-frequency converter.

3. Features of the instrument

- 1.1. It is portable, compact, easy to use and the moisture measurement readings are instant.
- 1.2. Digital display with back light gives exact and clearly reading although you stay at the somber conditions.
- 1.3. It will save time and expense by monitoring dryness and helps to prevent deterioration & decay caused by moisture whilst in storage, therefore processing will be more convenient and efficient.
- 1.4. This instrument adopted the high frequency principle based on the introduction of the most advanced technology from foreign country.

4. Technical parameters

Specification

Display:	Digital LCD with backlit
Measuring range:	0-2%&0-99%
Operating conditions:	
Temperature:	0-60°C
Humidity:	5%-90%RH
Resolution:	0.1 or 0.01
Accuracy:	± 0.5(1+n)%
Power supply:	9V battery
Dimensions:	190×68×30 (mm)
Weight:	126g (not including batteries)

5. Attentions

- 1). This Moisture meter works relying on touching the object. The premise of the measurement is fully pressing the probe onto the targeting object. (the three pieces metal must be pressed at the same time).
- 2). As the high frequency is of great penetration, if there was metal around the object, the measuring result may be not accurate. Therefore, during measurement, there should be no metals or magnetic objects around the probe.

6. Operation Instruction

- 1). This Moisture meter works relying on touching the object. The premise of the measurement is fully contact between the three probes and the targeting object.
- 2). During measurement, hold the bottom part of the instrument, the body of the instrument should be parallel with the targeting object. Then slightly press the three probes on the surface of the object, the instrument will work.

6. Steps of usage

- 1). Hold the instrument in hand and avoid contact with the targeting object at first. Press the button "ON", The LCD screen displays a figure within 00.0 ± 0.5 . Otherwise, zeroing knob (ZERO) should be adjusted slowly until the figure is less than 0 ± 00.5 . Press S/D knob to changing the accuracy if moisture content less than 2%.
- 2). Hold the device and press the probes on the surface of the measuring object. Once the displayed figure maintain stable, then the figure is the moisture value of the object.
- 3). When measuring the moisture of garment, leather and wool, the testing results needs to be verified. For example, when measuring some object, the moisture of the sample object is 15%, then adjust the gear until the measuring result is also the same as the sample. If Gear 7 was used for the final result of 15%, then always use gear 7 in the measurement of the same object in the future.
- 4). replacement of the battery: When the knob (zero) can not be regulated within 0 ± 00.5 or the figure increased irregularly, or the battery symbol is displayed on the upper left of the screen, then replace the battery with a new one of 9V (6F22).

(Low quality battery also can result in this question).

5).If the display can not adjusted within 00.0 ± 0.5 when battery keep working. Slide open the cover of the instrument, use a screw driver to adjust the small brass screw on the side of the battery compartment till is shows within 00.0 ± 0.5 .(it effected by temperature and humidity in environment.)

Reference table

CODE	Reference materials
2	polyacrylonitrile fibre
5	polyarmide fiber
6	Silk & cotton
8	Viscose fiber
9	jute fiber

Note:

The code table just for reference because the composition and internal structure of the textile fabrics is different. If have any error in testing value, please see the steps of usage 3.



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