

# STATISTICAL TEXTILE MOISTURE METER

## KMS680T

VER23E22

Thank you for purchasing our products!

In order to operate the moisture analyzer easily and freely as soon as possible, please read the manual provided by us carefully, and keep it in a convenient place for future reference.

KMS680T statistical moisture meter is widely used in cotton, spindles, wool spinning, silk, hemp products and recycled oil wool strips and other industries that require rapid measurement of moisture or moisture regain. It can be carried on site for rapid testing, which is an ideal instrument for textile industry, trade, scientific research and quality inspection departments.

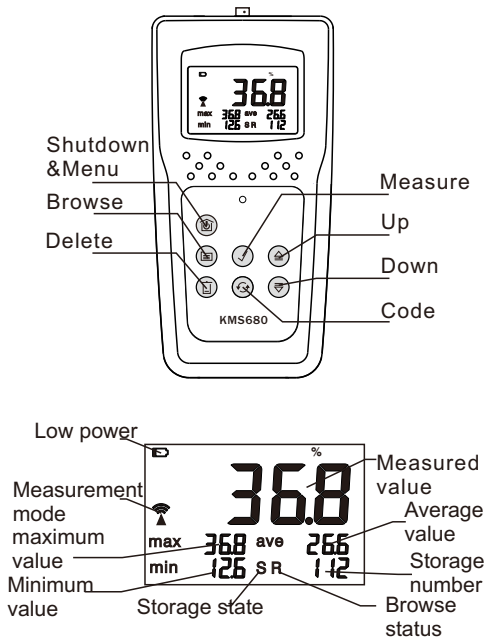
### FEATURES

1. It has the function of storing statistics and displaying multiple types of data at the same time.
2. Automatic power on calibration function.
3. The measurement speed is fast, which can replace the traditional oven method, and the measurement value is displayed in real time.
4. Built in a set of common codes, and 5 sets of codes are provided for users to choose according to their specific needs.
5. Deviation correction function for special cases.
6. The instrument adopts low power consumption circuit and liquid crystal display technology; low power consumption
8. Alarm function, the maximum value is maintained.

### SPECIFICATION

- Display mode:  
Multi-parameter LCD digital display
- measurement range:  
4-90%(CD01)
- Resolutions: 0.1
- Operation conditions:  
Temperature: -10°C-60°C  
Humidity: <85%
- Automatic temperature compensation
- Accuracy: ±0.5%
- Power supply:  
4 X1.5AA size(UM-4) battery
- Dimensions:  
Main: 145mm×70mm×30mm  
weight: about 120 g(main)  
Optional: Pin(20mm,150mm)  
Single needle sensor  
Data simulator

### APPEARANCE



### OPERATION

1. Press the key to turn it on, and is showed on the display. Wait for about 3 seconds and the screen display to enter the measurement state. The machine has the function of self-calibration when it is turned on. In order to avoid errors caused by dirty sensors, it's better to insert the sensor 3-5 seconds after startup. After the sensor is installed, and keep it suspended without contact. If a number greater than 2 is displayed after you press the MEASURE key, the sensor needs to be cleaned and dried.
2. The instrument has six groups of codes Cd00-Cd05. Press the CODE key, the current code CdXX will be displayed on the screen. Press the "UP" and "DOWN" key to select the appropriate code, and press the

CODE key to confirm. Cd05 is a general-purpose data used in some special enterprises.

3. Insert the probe into the materials straightly, press the MEASURE key, and the value is the moisture content of the material. The probe are more deeper (It is better to insert the full length of the probe), the value is better.
4. Measurement mode conversion. The default state is single mode. Press the MEASURE key for about 6 seconds, release after hearing the buzzer and switch to continuous mode. The symbol changes from to . Press the MEASURE key again for about 6 seconds to switch to single measurement mode.
5. Statistics function. Moisture meter has statistical function, automatically display

maximum value, minimum value and average value. In the single mode, 120 groups of statistical value can be made. After more than 120 sets, the first measurement value will be automatically overwritten. After you press the DELETE key, the statistics will be deleted and restarted.

### Data processing

1. Storage  
The single mode, each data will be automatically stored in the host.
2. View  
Press the BROWSE key, the symbol S switches to R. The reading and ordinal number of the current browsing data are displayed, the instrument enters the viewing mode. Then press UP key or DOWN key to browse the data stored in the instrument.

To quit viewing mode and return to the measurement mode, press the CODE key.


### 3. Delete

There are two ways to delete data: single deletion and all deletion.

In the browsing status, press the DELETE key, and the current reading will be deleted. In the measurement mode, press and hold the DELETE key for about 5 seconds, all the measurement data stored in the instrument will be deleted.

Note: In the measurement mode, press the DELETE key, the statistical function will be stopped.


### Data Correction

- 1.1. Press the  key in the measurement state until *Adj* is displayed on the LCD, and 0.0 is displayed after release. Use the

UP and DOWN keys to adjust to the desired value. If the measured value is 18.0, you need to correct it to 20.5 and use the UP key to adjust the compensation value to 2.5. When the adjustment is complete, press the code key to exit.

2. The default correction value is 0.0. After modification, it will be saved in the internal memory chip of the instrument until the user modifies it again.

### Warning Setting

1. Press the  key and don't release until "AL 1" or "AL 2" appears on the LCD, release the key, and the set value is the AL1 or AL2 alarm value. Such value can be changed to your intended value by pressing the UP key or DOWN key. Press the CODE key to return to the state of measurement.

the measurement results.

4. If the instrument is not used for a long time, please remove the battery to prevent damage to the instrument caused by battery leakage.
5. The probe is strictly prohibited to be directly inserted into the liquid, otherwise the internal liquid will cause short circuit and damage to the internal devices.

Users can change the alarm limits when as per their intention. "AL2" must larger than "AL1", if the "AL2" less than "AL1" during setting will be returned back the factory setting, just to say, AL1=13 , AL2=18.


If the reading < AL1,  
the green LED is on.

If the reading > AL2,  
the red LED is on.

If the reading lies between AL1 and AL2,  
the yellow LED is on.


### Automatic Power Off

This instrument has two ways to power off, that is, manual power off and automatic power off.

At any time, press the  key for about 1 seconds. Release the key when the "OFF" appears on the display, the gauge is powered off.

On the other hand, in storage measurement mode, if the keys are not pressed in 2 minutes, the gauge will be turned off automatically to save electricity.

### Battery Replacement

When it is necessary to replace the battery, the battery symbol '  ' will appear on the Display.

Slide the Battery Cover away from the Instrument and remove the batteries. Install the batteries (4x1.5v AAA/UM-4) correctly into the case.

If the instrument is not to be used for any extended period, remove batteries.

### Notes

1. Moisture is not consistent in the measured object, the moisture contained in different positions of the same measured object will be different, so the measured results will be different.
2. The insertion depth of the stylus directly affects the measurement results. In general, the deeper the insertion, the higher the measured moisture value, so please pay attention to the consistency of the insertion depth of the stylus.
3. This instrument is a high-resistance instrument, and each part should maintain good insulation. When using and storing, pay attention to dust and moisture, so as not to affect

### Codes Table

CODE	Referencematerial
Cd00	Cotton Yarns Series
Cd01	Woollen Yarn Series
Cd02	Silk Yarn Series
Cd03	Halm Yarn Series
Cd04	Regeneration Oil Combed Top Series
Cd05	Special generic code

The code is for reference only, please adjust it according to the actual situation, and the factory default is Cd00 .