MOISTURE ANALYZER

USER MANUAL

I Instruction

1. Security

Please reading the following before you use the moisture analyser.

a. The instrument can use for test the sample,each improper operation may   result in personal injury and equipment damage

b. Please access the AC power accordance with the manual;

c. Please make sure the power cord does not interfere with people action;

d. Do not use the instrument under the hazardous ,wet or unstable environment ;

e. Unplug the power before you clean the analyzer;

f. Please keep enough space around the instrument ,and keep the top of the space at least 1m;

g. During a special experiment, please wear protective equipment by youself;

h. Please do not change the instrument's components and any other aspects. Maintenance of this equipment by the factory authorized professionals。

Moisture analyser use halogen heating lamp.

i. Do not put the flammable materials around the instrument;

j. Do not touch the lamp when it on working.

Special attention to the dangers of some sample;

k. Before you test the dangerous good , please take Full investigation

Inflammable and explosive materials: Test the inflammable and explosive materials   will produce flammable gases or vapors, so need to lower the temperature in a dry environment. In case of fire or explosion.
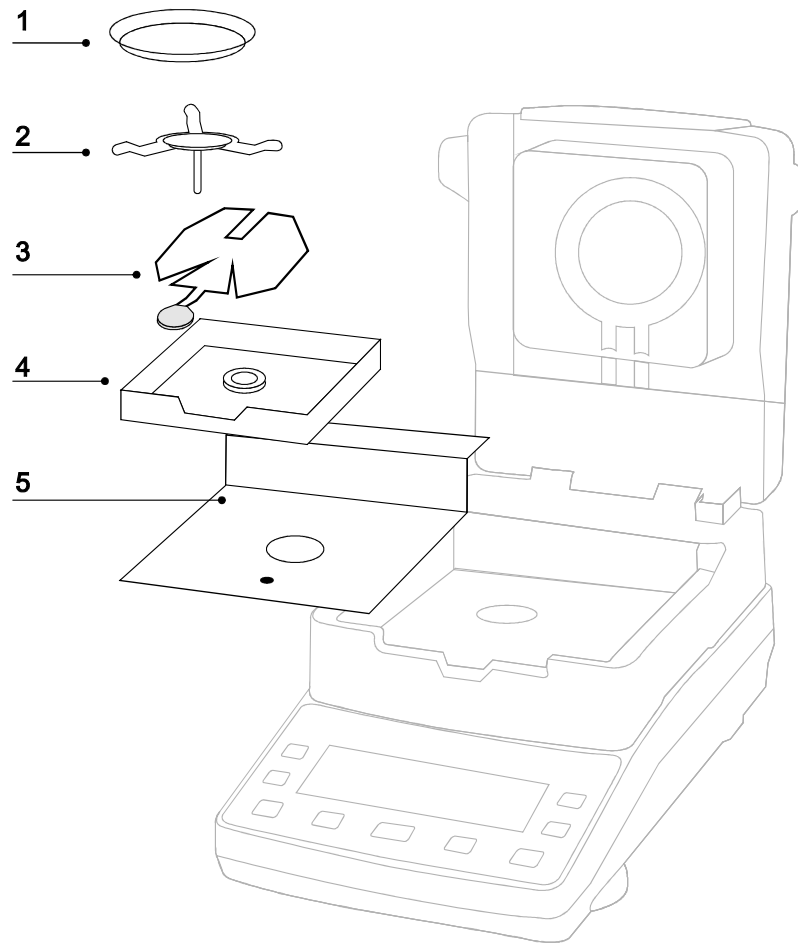
Toxic and corrosive substance: Keep the samples of toxic or corrosive ingredients in well-ventilated environment.

Above the sample test will be particularly careful, for any damage caused by your own risk

Tips:

1. Warm-up the analyzer 30 minutes and take the first time calibration;

2. After the end of a water calibration experiments (see 3.6);

3. Each time the switch machine, please interval of 5 seconds;

4. Do not leave the weight on the pan before cover the heater , or halogen lamps will be crushed;

Schedule: assembly drawing

Please installation the instrument according the picture

Installation order from top to bottom :1 --2--3--4--5

1. Aluminum scale pan
2. The triangle scale frame
3. Scale pan brackets
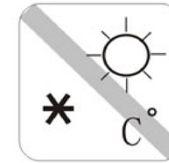4. Wind cover
5. Stainless steel plate

2.1 Standard Packing List

Please check whether the packaging and accessories is complete when you open it

Standard	Quantity	Note
Moisture Analyzer Mainframe	1 set	
Wind Cover	1 piece	
The sample pan holder	1 piece	
Tray handle	1 piece	
Power cord	1 piece	
Aluminum sample pan	1 set	50pcs
100g standard weight	1 piece	
Product Manual	1 piece	
Product certification	1 piece	
Warranty card	1 piece	

2.2 Placing Requirement.

Operating table should be stable

Temperature stable, dry, without strong vibration, without strong magnetic field.
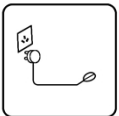
good ventilation of the environment

2.3 Installation of accessories

Place the wind cover, aligned holes.	Place the sample pan holder, rotate until positioning.	Put the aluminum sample pan on the bracket.

2.4 Adjust the level and connect the power

There are two feet in front of the instrument ,adjust it and keep the instrument level.

Connect the instrument with power ,put one side of power cord

Please warm up more than 30minutes for keep it stable and

通电30分钟

III Operation

3.1.Display

3.2.Icon Introdution

6---The percentage of dry weight(%) /Moisture(%m)/the weight(g)

5----The current temperature or Setting temperature

4---- Time set and test time

2----Test mode

----Standard test mode   ----Rapid test mode

---- Gentle test mode

3---- Stop test mode

3.5   Calibration

When the instrument error or   improper operate. Calibration weights can be adjusted with accuracy.

Press "Reset" key and does not release until it display"-cal-",

Then flashing "100.000", put on the calibration weight, then it will display "= = = = =",

until it display "100.000"   remove the weight, it will display "= = = = = = "again, Waiting it show" 0.000 ", the calibration is completed.

IV Technical parameters

Name	Moisture Analyzer
Mode	XY100MW-A
Specification	110g/1mg
Readability	1mg
Pan size	Φ 90
Display	LCD
Temperature Setting	40℃~199℃
Time Setting	1~99 minutes
History store	15 set
Heating Unit	Halogen Lamp
Power supply	220V,50Hz

when flashing .Press"UP"or"Down"to choose the stop mode.and press "ENTER" confirm ， Parameters are defined, and go to the next parameter (temperature) setting.

3.5.4　Test Temperature Setting

The instrument temperature setting range is from 0 to 199 degrees. Press the "MENU" to enter the parameter setting mode, press the "ENTER" key until the $120°C$ flashing， Press"UP"or"Down"to choose the temperature.and press "ENTER" to go to next setting(time setting)

Icon $120°C$ will transform other temperature when its test.

3.5.5　Test time setting

1.Just choose timing stop mode need set the stop time.

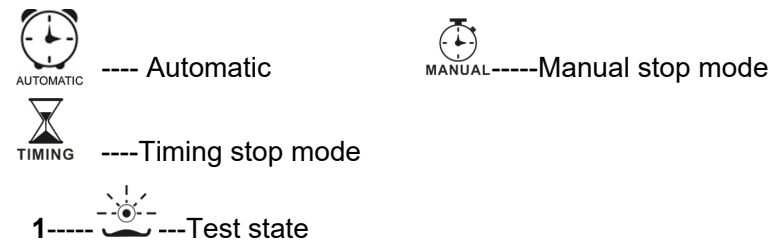Press the "MENU" to enter the parameter setting mode, press the "ENTER" key until the $88:88$ flashing， Press"UP" or "Down"to choose the temperature .and press "ENTER"

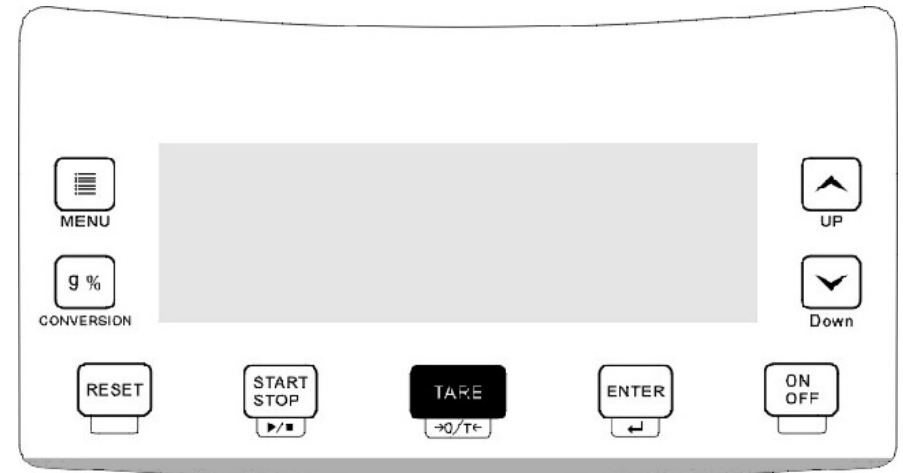2, Test cycle: Just gentle test mode need choose test cycle

3.6　For example：

a. Sample：water，

b. Press the "MENU" to enter the parameter setting mode, choose the (），temperature:120℃，Press "ENTER" go to weighing state

c. Put a dry paper on the pan, and press "Tare" clean the weight.

Put on the 3g water on the paper ,until the readability stable.

Press" **START / STOP** " begin test.

Waiting for it sop. look the result.

The m% will be 100%.

Weighing error or sample weight deficiency can lead to the result of the test a deviation

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 ---- Automatic　　　　　　-----Manual stop mode

 ----Timing stop mode

1----- ---Test state

3.3. Keypad

NAME	Key features
ON/OFF	Power on / off, Just off the internal DC power supply
START / STOP	Start test/ stop test (it will change to pause function ,after test 30 seconds)
TARE	Weighing peeled, Settings　exit
MENU	Enter the setting menu
CONVERSION	Switching measurement results
ENTER	Confirm the current setting, go to next
RESET	Return to the weighing mode (short press), calibration the balance (long press)
DOWN	Reduce　（Turn off the back light　）
UP	Add　　　（Turn on the back light）

3.4 First test

1. First test, if not change the temperature and time settings, the moisture analyzer defaults to factory defaults.

2. Put empty sample pan on the holder (see section 2.3).

3. Press the "TARE" to clean weight.

4.Put the sample on the pan (Sample weight should be heavy than 1g, the general 3-5g).

5. Close the heating cover, press the "Start / Stop" button to start the test. At this point, test tube lights, fans turn on, tested symbol in the upper left flashing. While rolling on the screen displays the current temperature, has been test time, result of the current sample.

6. End of the test, the lamp automatic shut off, the buzzer alarm. Then the sample is displayed on the result, test time, current temperature and the parameter setting mode.

Note: Don't touch the sample plate ,the temperature is too high now.

7 Press the "Reset" button, the instrument returns to weighing mode.

3.5 Parameters Setting

3.5.1 Test parameter storage and recall

a. The instrument can store a total of 16(0-F)group of tested parameters. Each group can set the test method, stop mode, time and time test parameters.

b. In weighing mode, press the "Settings" button to enter the parameter setting mode, then store the address number (the number show the highest bit) is flashing. Press "down" or "up" key to select the desired address number, the 0 is the factory setting,1-F for the user store.

c. The memory address number 0 means factory settings, then click "ENTER" button to exit the settings back to weighing mode. At this point tested mode is the factory defaults.

d. When the memory address range for the 1-F any one number, press "ENTER" key, and enter the parameter setting after the completion of a parameter (tested mode, stop mode, time mode) setting. Press the "TARE" key, the address number of the test parameters have been stored.

3.5.2 Test mode and setting （ ）

a. Standard test mode： ）

This mode is the factory setting, suitable for most samples. Test temperature can be set, the sample is tested to a temperature, and keep to the test ends automatically.

b. Rapid test mode: (）

This mode is suitable for samples with higher content. You can set the test temperature, test the temperature will exceeds the set value, the future will be reduced to the set temperature and hold until the test ends automatically.

c. Gentle test mode: (）

This mode is suitable for low content, surface casing is easy to form, easy to burn the sample. From the test began to rise to the long time required to set temperature, test up even slowly. Test time user selectable.

d. Press the "MENU" to enter the parameter setting mode, press the "ENTER" until the test mode, the icon flashes 。 Press "UP"or"Down"choose the mode you need and press "ENTER"confirm.

3.5.3 Stop mode setting： (）

a. Automatic stop mode： (）

Test the sample within the specified time during the weight loss of less than 2mg will automatically stop when the test. This mode after 15 seconds in the test effect.

b. Manual stop mode： ）

Sample test process is the continuing until the press the "start/stop" button to end test.

c. Timing Stop Mode： ）

Stop time set by the user, the sample test process is continued until the end of the test time to set the value of the test.

Press the "MENU" button to enter the parameter setting mode, press the "ENTER" key until the shutdown mode