Automatic intelligent Moisture Analyzer



USER MANUAL

CATALOG

FIRST:Introduction01
1.1 Security
1.2 Product composition
SECOND:Installation
2.1 Standard packing list
2.2 Operation requirements
2.3 Installation of fittings
THIRD:Home Page04
3.1 Start Page
3.2 Test Page
FOURTH:Menu05
4.1 Parameters Setting
4.2 History
4.3 Printer Setting
4.4 Calibration
4.5 Language
4.6 System Setting
4.7 System Information
FIFTH: Assembly Drawing12
SIXTH: Automatic Open13
6.1 Functions
6.2 Intelligent
6.3 Notes
SEVENTH:Tips14
EIGHTTH:Option14
NINETH:Schedule15
TENTH:Guarantee

First: Instruction

1.1 Security

Please reading the following before you use the Moisture analyzer:



- a. The instrument can use for test the moisture of 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. lease 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 yourself;
- h. Please do not change the instrument's components and any other aspects. Maintenance of this equipment by the factory authorized professionals.



Moisture analyzer use Halogen lamp.

- i. Do not put the flammable materials around the instrument;
- j. Do not touch the halogen lamp when it on working. Special attention to the dangers of some sample;
- k. Before you test the moisture of dangerous good, pleaes take Full investigation.

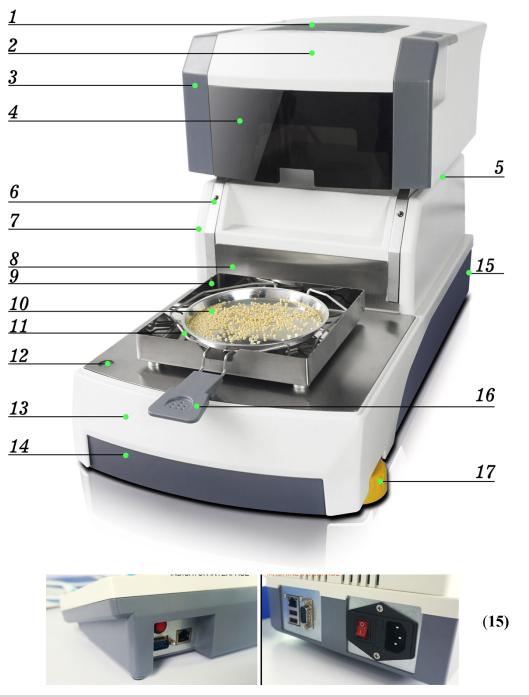


Inflammable and explosive materials: Heating the inflammable and explosive materials will produce flammable gases or vapors, so need to lower the temperature in a dry environment. In case of fire or explosion.

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

1.2.Product composition



1. Cooling window	Upper Cover	3. Decorative pieces	4. Window
5. Cooling Fan	6. Mechanical arm	7. Back Cover	8. Stainless steel tray
9. Under tray	10.Sample Pan	11. Triangle bracket	12.Lever
13.Host Upper She	II 14.Host	Down Shell	15.Interface
16. Sample tray bra	acket 17.Adju	st Feet	

Second:Installation

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

орен к.		
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	80pcs
100g standard weight	1 piece	
Product Manual	1 piece	
Product certification	1 piece	
Warranty card	1 piece	
Communication Cable	1 piece	

2.2 Operating Requirement



Operating table should be stable

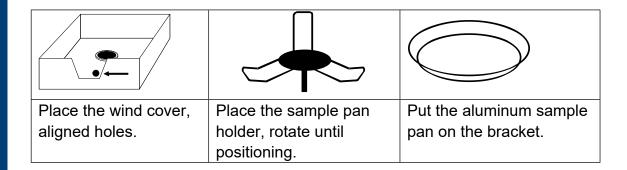


Temperature stable,dry, without strong vibration, without strong magnetic field.

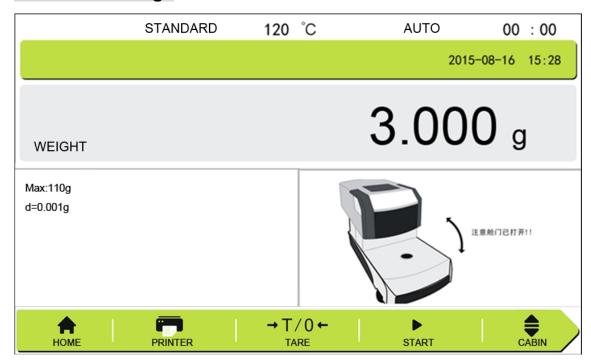


good ventilation of the environment

2.3 Installation of accessories



Third: Home Page



3.1 Start Page

Turn on the instrument will enter the start page.

Print: Print the history of the testing;

Tare: Keep the 0.000 before weighing;

Start: Start the testing.



3.2 Test Page:

Print: Print the history of the testing;

Conversion: Choose the result display for : Moisture/Sample weight/dry%;

Stop:Stop the testing; Back: Back to start page.

Curve: Vertical axis: moisture content,

Horizontal axis: time:

Fourth: Home Page



This page for choose the different function and setting as required.

4.1 Parameters Setting



Stop Mode:

Auto Stop: The testing will stop when it differentiate the moisture testing finish.

Timing Stop:You can setting the testing time as your required.

Manual Stop: The testing will not stop until you press the stop key.

Testing Mode:

Auto Mode: The mode suit for most sample for common moisture test;

Soft Mode: Some fusible and volatility things can choose this mode;

Fast Mode: Some stable and the more stability things can choose this mode.

Temperature Setting:

You can choose the temperature as you need.

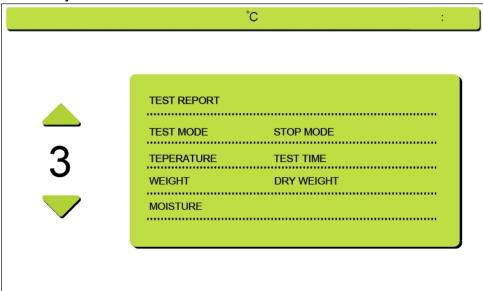
Temperature range: 40~230°C

Temperature step: 1°C

Timing Setting:

The mode just suit for the timing stop mode. This function can simulate the oven experiment

4.2 History



Operator can choose the history and print the result.

The information include:

1.Model; 2Test mode.; 3.Stop mode; 4.Test Temperature; 5.Test Time; 6.Wet Weight; 7.Dry Weight; 8.Moisture Content.

4.3 Printer

4.3.1: The baud rate and communication mode.

Baud rate: 1200/2400/4800/9600

4.3.2: Communication mode: Continuous/Point output

4.4Calibration

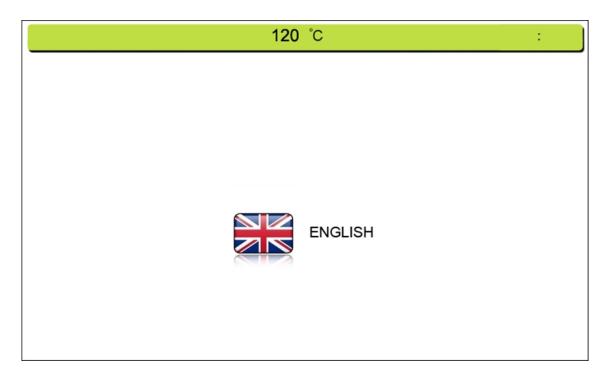


When the instrument error or improper operate . Calibration weights can be adjusted with accuracy. Press "One point calibration" and does not release until it display"-cal-", Then flashing put on the "200.000", put on the calibration weight, then it will display "= = = = =", until it display "200.000", and will show Remove the weight, it will display "= = = = = "again, Waiting it show" 0.000", the calibration is completed.

When the instrument can not work, you can also choose the multi-point calibration, and according the note, operation the calibration..

4.5 LANGUAGE

Enter the language page and choose the language as required.



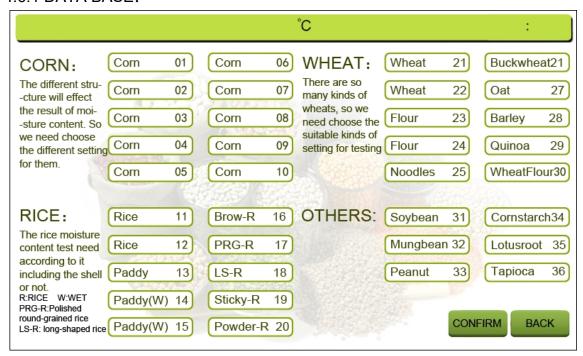
4.6 SYSTEM SETTING

This menu include:

1. DATA BASE; 2. DATE/TIME; 3.HUMITY CALIBRATION 4. TOUCH CALIBRATION; 5. FACTORY SETTING

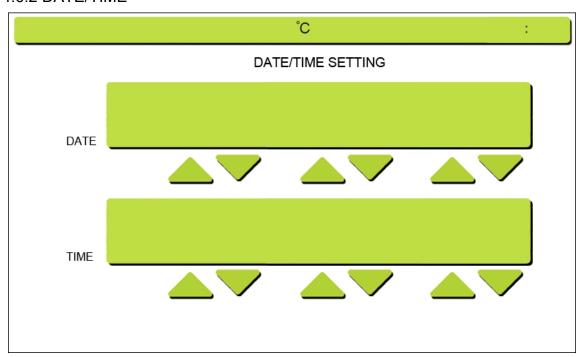


4.6.1 DATA BASE:



The data base store many kinds of setting for different sample, operator can Choose the suitable setting for required. If you can not find the suitable setting, Please set it by you self according in 4.1

4.6.2 DATE/TIME



Operator can set the time and date in this page, and the setting will showing in the test page and will print in the test report.

4.6.3 H.CALIBRATION:



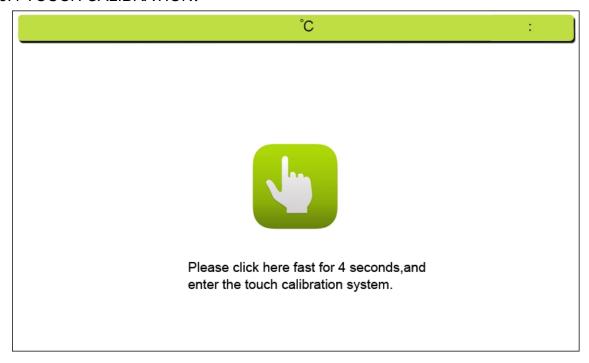
The humidity changed in our environment will effect our moisture test, especially when we test the micro moisture content, it will impact effect the result. So we need turn on this function to keep the result more accuracy. The operation as blow:

- 1.Enter the H.calibration page;
- 2. Press turn on and then press confirm;
- 3.Back to the testing page,move away the sample pan;Press: Tare, then it will show:0.000g; Put on the pan, and close the cover; Press" Start" and the window will show the H.Calibration, it mean environment calibration working. Then Testing finish, put on the sample and test continue.

H.Calibration

- 4.The test need do it before the real sample test, and H.Calibration result will store in the H.Calibration page ;
- 5.Because of the environment are always change, the this value not all the same, so the alue of the H.Calibration will disappear when power off.

4.6.4 TOUCH CALIBRATION:



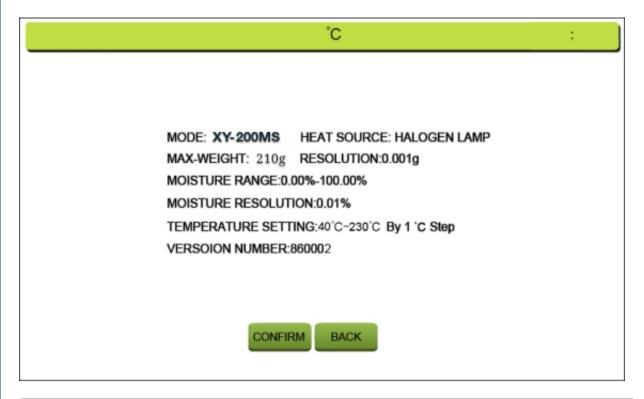
When the touch system have error or mistake, we can use this function to Calibration the touch panel the operation please according the promotion which showing in the display.

4.6.5 FACTORY SETTING:



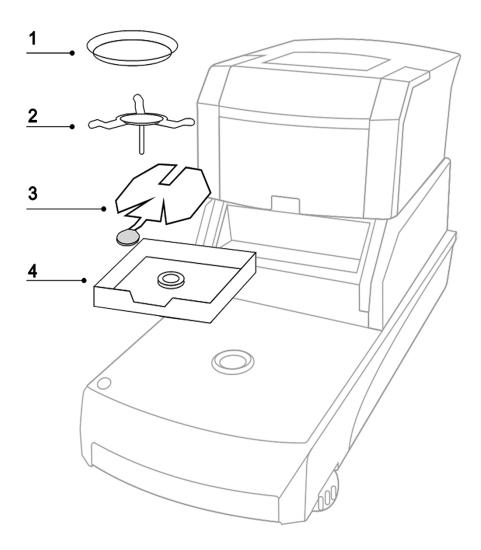
When the setting have error, we can use this function to back to the factory setting, But it will make all test report disappear. So please use it carefully

4.7 SYSTEM INFORMATION



MODEL	XY-100MS	XY-100MS (plus)	XY-200MS	XY-200MS (plus)
SPECIFICATIO N	110g		210g	
RESOLUTION	1mg			
M.RESOLUTION	0.01%			
M.RANGE	0.00%-100.00%			
PAN SIZE	Ф 100			
HEATER	Halogen lamp			
INDICATOR	7 inch touch panel			
TEM.SETTING	40°C~230°C			
TIME.SETTING	1~99min			
HEATING HIGHT	35mm			
ATRO	100%~999%			
ATRO	0%~999%			
STORAGE	20 Group			
COMMUNITION	CABLE			
BATTERY	NO			

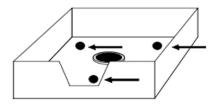
Fifth: Schedule: assembly drawing



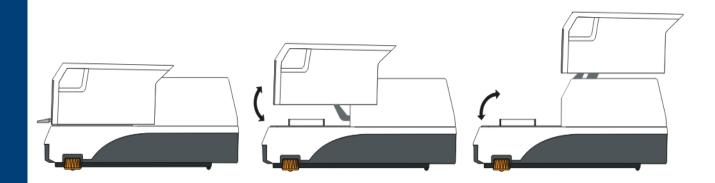
Please installation the instrument according the picture Installation order from top to bottom: 1 --2--3--4--5

- 1. Aluminum scale pan
- 2. The triangle scale frame
- 3. Scale pan brackets
- 4. Wind cover

Note: Please confirm put the No 4 part the point on the true place.



Sixth: Automatic Open.



6.1 Function Introduce

The moisture analyze use dual motor for automatic open the chamber, it reduce the gear drive, so avoid mechanical vibration. Keeping the weighing system more stable and quiet. We can press to open or close the chamber

6.2 Intelligent Sensing

We add the intelligent sensor in this system, it means when anything keep or forget On the pan and the chamber close, the cover will feel the obstruction and back to The opening state. It can avoid the chamber crush the hand and body.

6.3 Notes:

- 1. Please use the automatic with operator supervision.
- 2.Do not open or close the chamber by manual, it will broken the automatic system, If make it error, please press"open/close" key and restart the chamber 2times, The system will find the true point.
- 3. Please do not open the machine and repair by yourself, if anything make it not working, please contact us.
- 4. Please close the chamber then power off or left.

Seventh:Tips:

- 1.Please warm-up the analyzer 30 minutes and take the first time calibration;
- 2. Please do the warm up testing after calibration experiments (see 3.6);
- 3.Each time the switch machine, please interval of 5 seconds;
- 4.Cover the heater, do not leave the weight on the pan, or halogen lamps will be crushed, please use the calibration weight which we put in the machine.
- 5. Please turn off the power when you leave.
- 6.Please do not testing unmanned monitoring

Eight: Options

Temperature calibration instrument: It is used for the moisture analyzer temperature calibration.



POS printer: optional with RS232 connection, for printing test report.



Ninth:Schedule: Problems and troubleshooting

No	APPERANCE	REASONS	SOLUTION
1	Note:the chamber is open.	The chamber not close	Close the chamber then test.
2	Note:the sample less than 1g	The test sample too light	Please put on the weight more than 1g
3	Note: the chamber open error!	Open the chamber by manual or something hinder the chamber close	Please try again close and open the chamber until the tips disappear.
4	It can not weighing or not accuracy	Power problem or sensor problem	1.Please restart the machine(Turn off the power and waiting 5 seconds then turn on) 2.Try to calibration.
5	Can not heating	1.Lamp broken 2.Temperature setting too lower 3.Main-board problem	1.Change new lamp 2.Reset the test temperature 3.Factory repair
6	Not stop heating	1.Change stop mode 2.Temp sensor broken 3.Temp protect broken	1.Change to auto stop. 2.Change a new temp sensor 3.Change a new
7	Instrument display data error	1.The indicator sudden power off.2.The indicator was broken3.The machine was broken	1.Power off and power on again the indicator 2.Factory repair.

Note: Please do not open and repair machine when come across the problem .

Tenth: After sales and warranty

- 1. This product is guaranteed for one year.
- 2. In the warranty period, according to the use of instructions for the normal use of the condition of the failure (by the company official staff judge), to be free of repair.
- 3. During the warranty period, if any one of the following circumstances, must be used as a charge repair:
 - 1)Can not provide the guarantee and effective proof of purchase.
 - 2)The machine damaged because of uncommon use.
 - 3)The machine damaged because of shipping or delivery.
 - 4)Other unavoidable external factors cause failure and damage.
 - 5)Damage caused by improper use of water or other solution.
 - 6)Damage caused by the use of other power supply.
- 4. This option or parts not in the warranty (halogen lamp, weighing sensor.sample pan).
- 5. We are not responsible for the accident which cause by the machine.

P 16