

Automatic intelligent Moisture Analyzer



USER MANUAL

CATALOG

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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



Second:Installation

2.1 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	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

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

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.

	STANDARD	120	°C	AUTO	00 :	00
				201	5-08-16 15	:28
WEIGHT			4	3.00	0 g	
0		→ Time				
PRINTER	() CONVERS	ION	STOP		Ф ВАСК	

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℃

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

	TEST REPORT		
	TEST MODE	STOP MODE	
3	TEPERATURE	TEST TIME	
U	WEIGHT	DRY WEIGHT	
	MOISTURE		

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 calibrat--ion, 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:

					°C			;
CORN:	Corn	01	Corn	06	WHEAT:	Wheat	21	Buckwheat21
The different stru- -cture will effect	Corn	02	Corn	07	There are so many kinds of	Wheat	22	Oat 27
the result of moi- -sture content. So	Corn	03	Corn	08	wheats, so we need choose the	Flour	23	Barley 28
we need choose the different setting	Corn	04	Corn	09	suitable kinds of setting for testing	Flour	24	Quinoa 29
for them.	Corn	05	Corn	10		Noodles	25	WheatFlour30
		1	PUBS (1				des à
RICE:	Rice	11	Brow-R	16	OTHERS:	Soybean	31	Cornstarch34
The rice moisture content test need	Rice	12	PRG-R	17		Mungbean	32	Lotusroot 35
including the shell	Paddy	13	LS-R	18		Peanut	33	Tapioca 36
or not. R:RICE W:WET PRG-R:Polished round-grained rice LS-R: long-shaped rice	Paddy(W)	14	Sticky-R	19			12 m	
	Paddy(W)	15	Powder-R	20			CONF	FIRM BACK

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.



- 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:

°C	:
PROMPT:	
The system will restore the factory setting!	
Please carefully operation!	
Press the back key to exit.	
CONFIRM BACK	

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

Confirm Back

MODEL	DW-100MS
SPECIFICATION	110g/1mg
RESOLUTION	1mg
M.RESOLUTION	0.01%
M.RANGE	0.00%-100.00%
PAN SIZE	Φ 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 guiet. 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 broken2.Temperature setting too lower3.Main-board problem	1.Change new lamp2.Reset the testtemperature3.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	 The indicator sudden power off. The indicator was broken 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.

Drawell International Technology Limited Chongqing Drawell Instrument Co., Ltd. Shanghai Drawell Scientific Instrument Co., Ltd.

Chongqing Center : Suite 2705,Building No.12,Shiyou Road No.1, Yuzhong District, Chongqing, China. Shanghai Office : Suite 1117,Lane561 XiuChuan Rd.,PuDong New Area,Shanghai,China Homepage : www.drawell.com.cn Tel : 0086-023-63268643 Email : sales05@drawell.com.cn Tel : 0086-023-63268643 Email : sales05@drawell.com.cn
