



8688/8588 COMPUTER MOISTURE METER

FUNCTION

- Automatic weighing in (8688)
- Automatic moisture test
- Automatic temperature compensation
- Revision moisture pre test
- Automatic switch off
- Newest compensation mode
- AC/DC
- Setup standard by customer



SPECIFICATION

- Test object: foodstuff and other nonmetal grain sample, such as rice, wheat maize, soya bean and rapeseed.
- Test range : 3 ~ 35%
- Repeat error: equal or less than 0.2%
- Test error: equal or less than \pm 0.5% (mainly moisture range)
- Test ime: equal or less than 10s
- Power supply: four # 5 dry battery
- Automation switch off: the instrument will be switched off automatically if there is no operation within 3 minutes.
- Environment temperatures: 0~ 40°C
- Temperature COnpensation: automation
- Net weight: 880gram(8688), 780gram(8588)
- Accessories: container and filler, 4 dry batteries, cleaning brush,use manual, certificate and guarantee card, 200 gram standard poise(8688)

8688 Appendix: standard sample/code

Species name	Species code	Species name	Species code
Round shaped paddy	P 1	Vegetable seedcake	P 11
Soybean	P 2	Grain feedstuff	P 12
Wheat	P 3	Sunflower seeds	P 13
Rapeseed	P 4	Big watermelon seeds	P 14
Maize	P 5	Small watermelon seeds	P 15
Barley	P 6	Carrot seeds	P 16
Long shaped paddy	P 7	Black sesame	P 17
Rice	P 8	Yellow sesame	P 18
Bean seed cake	P 9	cottonseed	P 19
Peanut	P 10	Cotton seedcake	P 20

8588 Appendix: standard sample/code

Species name	Species code	Species name	Species code
Round shaped paddy	P 1	Cottonseed 80 gram	P 9
Soybean	P 2	Cottonseed 130gram	P 10
Wheat	P 3	Sunflower seed 100 gram	P 11
Rapeseed	P 4	Bean seedcake	P 12
maize	P 5	Bare bean	P 13
Barley	P 6	mung bean	P 14
Long shaped paddy	P 7	millet	P 15
Rice	P 8	peanut pip	P 16

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OUR COMPUTER MOISTURE METER BASED ON JAPAN'S COMPUTER MOISTURE METER'S UPGRADE TECHNIQUE



When the moisture is shown on the display, the first time press OK key to display the sample weight; the second time press OK key to display the sample temperature; the third time press OK key to display the dry battery voltage(eg.show U5.5); go back to the moisture display when you press OK key the fourth time.

Note: the displayed weight, temperature and dry battery voltage are only for reference to the

八、mainly specifications

Test object: foodstuff and other nonmetal grain sample, such as rice, wheat, maize, soyabean and rapeseed. Test range: 3~35% Repeat error: equal or less than 0.2%
 Test error: equal or less than $\pm 0.5\%$ (mainly moisture range)
 Test time: equal or less than 10s Power supply: four # 5 dry battery or 220V DC
 Automation switch off: the instrument will be switched off automatically if there is no operation within 3 minutes. Environment temperatures: 0~40°C
 Temperature compensation: automation Net weight: 880gram
 Accessories: container and filler, 4 dry batteries, cleaning brush, 200gram standard poise(8688), use manual, certificate and guarantee card.

8688 Appendix: standard sample / code

Species name	Species code	Species name	Species code
Round shaped paddy	P 1	Vegetable seedcake	P 11
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九、maintenance

1、 This product is a precision electrical instrument. It must be damp-proof and avoid intensive tremor. Place it horizontally when use and keep it clean and well maintained after use.

2、 Take out the battery if the instrument is not used for a long time or during the transportation.

3、 Electronic scale adjusting: some unexpected factors will result in scale imprecision. To adjust the scale, please follow below operations:

A、 Switch off the instrument and put it horizontally. Take out all inside the sensor. Press the Species key while switch on the instrument. Loose the Species key when hear the "cheep" from instrument. It show that the instrument is now in adjusting mode the "cheep" from the instrument. It shows that the instrument is now in adjusting mode when the digits are displayed.

B、 When the instrument display is stable, press OK key to set up the scale zero, display Show \square .

C、 Put the poise append with the instrument (or 200 gram standard poise) onto the black sharp of the sensor (or up-back). Press the OK key again when stable. Switch off the instrument and take off the poise after the instrument displays \square (± 1).

Thank for purchasing and using our factory's products

In order to get the perfect using effect,pls read the using manual careful

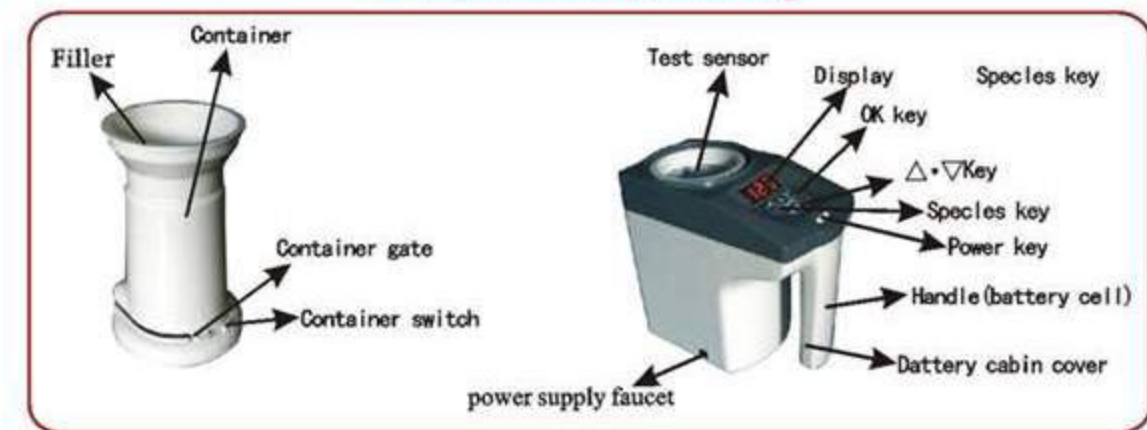
8688 SPEEDY COMPUTER MOISTURE METE



Use manual

- ★ Automatic weighing in
- ★ Automatic moisture test
- ★ Automatic temperature compensation
- ★ Revision moisture pre test
- ★ Automatic switch off
- ★ Newest compensation mode
- ★ AC/DC
- ★ Set up standard by customer

一、 structural sketch map



二、 preparation before operation

1、 Take out the small foam (protect the electric scale against the vibration, it can't test correctly if don't take it out) round the sensor.

2、 Fit on the four 5# dry batteries into the instrument handle (battery cell) according to the illustration. Put the instrument flatly and the filler onto the container.

3、 Put the instrument on the place without wind and vibration .

4、 Prepare for the sample, and take out the impurity, and bring the temperature into balance between sample and instrument

5、 Select the species code from the table : To be convenient to the customer, we have set a standard parameters to the representatvie species. Please directly look for the appendix <<table for related species code >> to select the select the code for code for directly test.

★When the instrument is used for trade liquidation with higher precision, we strongly recommend the customer to use the standard sample to calibrate the instrument error and standard setups.

三、 Moisture Test

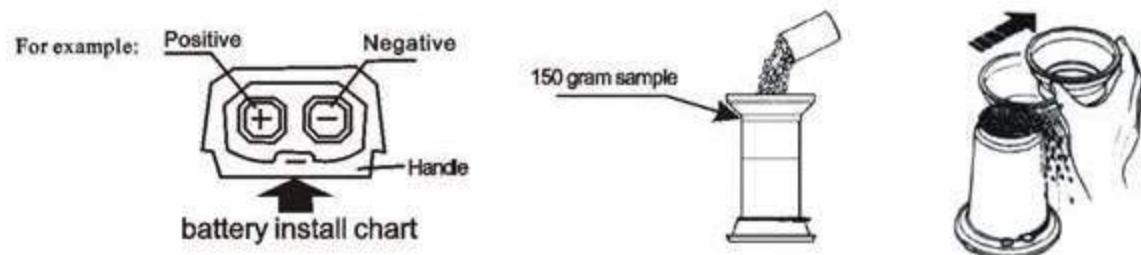
1、 Switch on the power supply, it will display the species code after self diagnosis.

For example: \rightarrow \square P 1

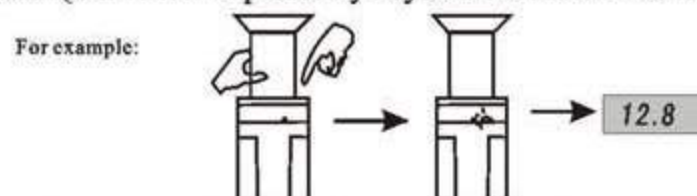
2、 Press the "+" or "-" key to select the species code (see appendix).

For example: OR \rightarrow \square P 3

3、 Put the sample into the container to make sure it levels the filler low edge.



4. Put the container on the instrument sensor, press the container switch and let moisture after the decimal point flash (don't need to press any keys and remove the container).



5. Close the container gate and spill all the sample from the sensor next measure. Note: take care of the operation in putting sample. For the big grain (such as: Maize), it will be better to average several test results to reduce the error.

四、error revision

Because of the zone and species difference and the limitation to pre-established standard species parameters, it is possible to find the error when using the default parameters defined by the factory. The customer can use following way to calibrate the error and standard standard to make sure the precision.

1. revisory value confirmation:

Based on the standard samples by means of 105°C over, the corrective value means the standard value minus the test result. For example, the Tested moisture is 13.6% and the actual moisture needed to display is 14%, so we should add 0.4, and the current revisory value is 0.4. Otherwise it will be the negative value.

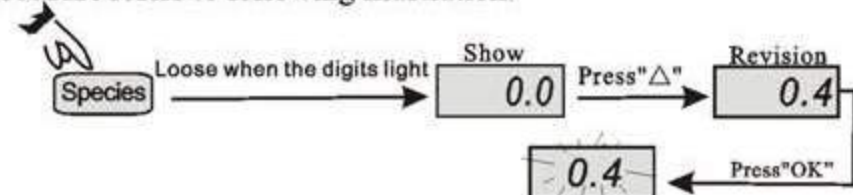
2. In revising status:

Spill the sample from instrument, press the species key for long time till flash and then loose it. The red lamp under the low left corner of the display will bright, and the instrument will display the default revisory value "0.0". It means that the instrument is now in the revising status;

3. revision:

Press the "△" key to add 0.4, then press the OK key to save. The revision is completed when the lamp flashes the species key or switch off to exitance.

The complete procedure refers to following illustration:



五、Standard setup

If you want to add the measurable species or you can prepare the standard sample by yourself, you can use following way to set up the standard.

(1) Prepare the standard sample: prepare three kinds of standard samples with high, middle and low moisture by means of 105°C over (if the actual Test range is less than 6%, it is enough to only use two standard samples with high and low moisture). In order to make the standard setup representation and veracity, the moisture in the high and low standard sample must be in the two

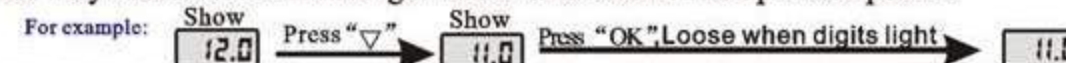
ends of the actual moisture range. The suitable moisture difference among the standard 3-6% (for examples: the moisture of wheat is 18%, 14% and 10%)

(2) Enter into the standard setup: Spill the sample from the instrument, press the long time and loose it when the display flashes. The red lamp under the low left display will be bright, and the species code is showed on the display. It indicates that the instrument is standard setup.

(3) Select the specie code: Press "△" or "▽" key to select the species code.

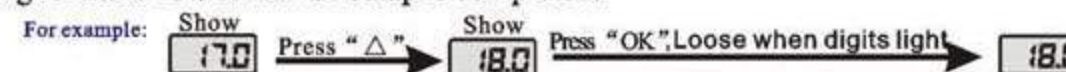
(4) Note the setup order: You should follow the following order to set standard: first is the low moisture, next is the high moisture and final is middle moisture.

(5) Set low moisture standard: take low moisture sample and fall them into sensor. When the test result is displayed, change the Test result (display 12%) into the standard value (11%) Then press "OK" key and loose it till the digits flash. One standard setup is completed.



Note: one standard setup can be also the approach to calibrate the error.

(6) Set high moisture standard: Spill the sample but don't switch off the instrument. Again take high moisture sample and fall them into the standard value (18%). Then press "OK" key and loose it till the digits flash. Two standards setup is completed.



(7) Test the standard samples again: Test the standard sample again. If the error $\leq 0.5\%$, it indicates the standard setup is successful. Switch off the instrument to exit the standard setup. If the error is large, it needs to reset the standard setup.

(8) The third standard setup: If the gap between the low and high moisture standard sample is too large (exceed the 6%), the middle moisture standard sample can be used as the third standard setup. The setup approach is the same it used in high and low moisture standard setup.

Note: When three standards setup is completed, the instrument will exit the standard setup automatically and enter into then test status.

六、recover the default data

The customer can remove the error revision and standard setup created by themselves and recover the default data given by the company. The approach is: press the OK key and the "▽" key at the same time, when the display flashes several times, loose two keys together, at that time the data is recovered by the default data.

七、state indication

The instrument has the real time monitor function. It will display the different symbol based on the different cases, see below:

1. Instrument status indication

● Flashed $[U-1]$: indicates that the dry battery is running out. The instrument will be switched off Automatically after 10 time flash.

● Flashed $[E-1]$: indicates that there is sample in the sensor or instrument is uncorrected, it needs to spill the sample or correct.

● $[Er1]$, $[Er2]$, $[Er3]$: indicates that there are defects in the moisture test circuit, the temperature test Circuit and metage circuit.

● Flashed red lamp at the high left corner of the display: indicates that the battery voltage is insufficiency and need to change.

2. operations indication

● $[db1]$: indicates that the moisture difference between the low and high sample is within 1% when use two standards setup.

● $[db2]$: indicates that the moisture of the third sample (middle standard sample) is out of the low and high moisture range.

3. display the sample weight, temperature and battery voltage.