

OASIS

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LDS-IG Computerized Moisture Meter User's Manual

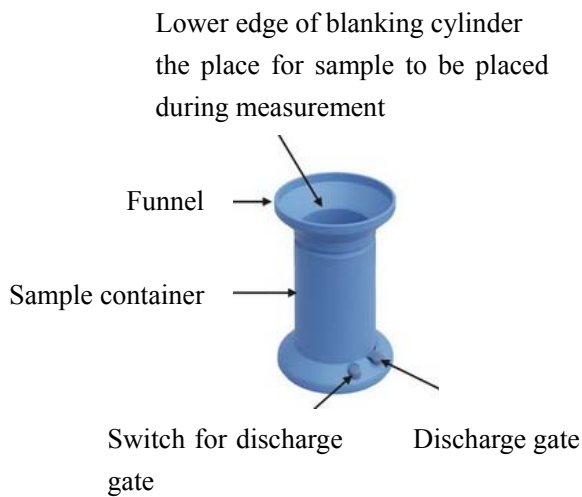
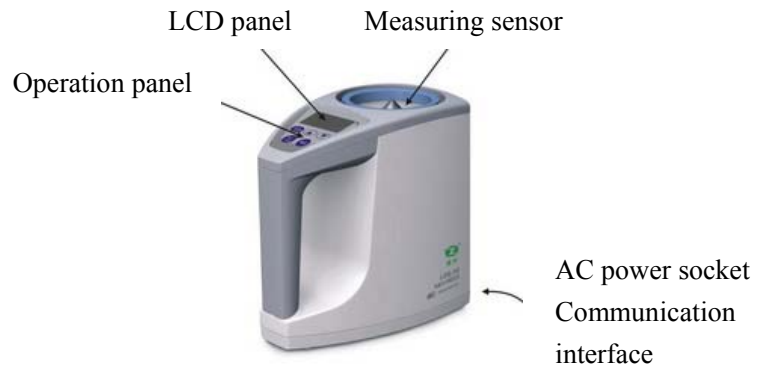


Quick, accurate, convenient
AC/DC power supply compatible
High-brightness backlight LCD, clear and energy-saving
Multipoint calibration, error correction
Low power consumption, automatic shutdown
Automatic weighing and temperature compensation
Volume-weight conversion display

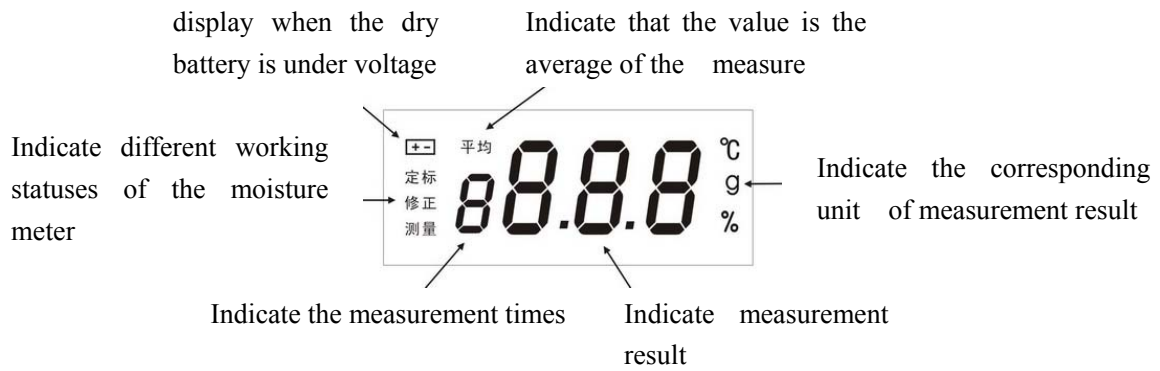
Shanghai QingPu Oasis Inspection Technologies Co., Ltd.

Thank you for buying and using our product. In order to maximize the effect of this product, please read this User's Manual carefully and keep safely.

I. Structure Diagram



Schematic drawing of LCD panel



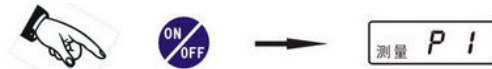
II. Preparations before Use

1. Take out protective foam blocks filled around the measurement sensor of the moisture meter (“the meter” for short), and meanwhile confirm that the sensor is free of any substance, otherwise the meter will not work properly;
2. Open the cover of battery compartment at the bottom of the meter, load in four 5# alkaline (1.5V) dry batteries (rechargeable batteries must not be used) according to polarity indication, or plug into AC power source (200V±10%, 50Hz) with AC adapter which is provided together with the meter;
3. Put the meter on a wind-free and shake-proof horizontal platform and make the funnel closely attached to sample container.
4. Get ready the sample to be tested: conduct preliminary sample screening, get rid of impurities, and put the sample in the meter for as long as possible to achieve temperature balance;
5. Check the list to identify category code: for ease of operation, the calibration parameters for representative categories have been preset during shipment of the meter. During application, all you need to do is check the “category-code list” attached to this User’s Manual and chooses the corresponding category code for moisture measurement.

Note: when the meter is used for trade settlement and safe storage which needs higher precision, we strongly recommend that you adopt standard sample of the category to be measured and conduct calibration and error correction of the meter so as to ensure measuring precision and safeguard your interest.

III. Moisture Measurement

1. Press down the power switch and the meter starts self-check. If no abnormality is found, the category code will be displayed;




Note



5. Close the discharge gate of the blanking cylinder, empty the sensor of the sample and prepare for the next measurement.

6. In order to reduce measurement error, pay attention to the consistency in operating method: the same sample (especially large-grain samples such as corn) shall be subject to several measurements, whose

results will be averaged: press the “” key once and the average value of previous measurements will be shown.

Note “”

V. Calibration

Calibration means conducting new configuration of the meter's parameters with samples whose standard moisture value has been already known. Calibration is used to increase measurement categories or correct precisely the measurement error of existing categories.

The meter can be calibrated with up to 4 standard samples in the following method:

1. Prepare standard sample: adopt 105 standard drying oven method to prepare standard sample; to

7. Continue calibration: continue calibration in the above procedures. After the calibration of the fourth standard sample is completed, the meter will automatically exit from the calibration status; if there is no third or fourth standard sample, you may press the “Category” key or shut down the meter to exit from the calibration status;

8. Recalibrate standard sample: if the measuring error is $\leq 0.5\%$, it means the success of the calibration. If the measuring error is bigger, recalibration is necessary.

Note: in case of any mis-operation during calibration, press and hold the “Category” key and release it only after hearing the buzz. Return to the initial calibration status and restart the calibration.

VI. Restoration of Calibration Data with Shipment

If you want to restore the meter’s default calibration data with shipment, the following operations shall be performed:

Choose the code of the category to be restored. Press the “

VIII. Subsidiary Functions with the Meter (for reference)

1. Averaging: when the meter measures the same sample twice or more, press the “

XI. Category-Code List

Category name	Code	Category name	Code	Category name	Code
Japonica rice	P1	Large-grain corn	P9	Soybean meal	P17
Soybean	P2	White wheat	P10	Cotton meal	P18
Wheat	P3	Peanut kernel	P11	Rapeseed meal	P19
Rapeseed	P4	Chinese sorghum	P12	Pellet feed	P20
Corn	P5	Black sesame seed	P13		P21
Barley	P6	Sunflower seed	P14		P22
Indica rice	P7	Watermelon seed	P15		P23
Rice	P8	Cotton seed	P16		P24

XII. Maintenance and Servicing

1. As a precision electronic product, the meter must be handled with care and be protected against shock and dampness. It must be placed horizontally during use and safekeeping, and be subjected to regular cleaning and maintenance;
2. Dry batteries shall be taken out if the meter is not used for a long time or in transit;
3. Calibration of electronic balance: The electronic balance built in the meter may lose its accuracy due to unexpected factors, which can be calibrated in the following manner:
 - a. Horizontally place the meter in shutdown state and take everything out of the sensor. Press and hold the “Category” key, then press the “Power” key for startup and the meter will buzz. Release the “Category” key, and the meter will display a figure, indicating the meter is under balance calibration status;
 - b. Press the “