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CHUNYE MC7828G

CHUNYE MC7828G Digital Grain Moisture Meter User Manual

Model: MC7828G

1. Introduction

The CHUNYE MC7828G is a cup-type digital grain moisture meter designed for fast and accurate measurement of moisture content in various grains. It is suitable for use in the processes of allotment, acquisition, storage, and machining of packed grains, feedstuff, and powder.

This device features a user-friendly interface, multipoint calibration capabilities, and a wide measuring range, ensuring reliable and precise results for up to 37 different grain species.

The image displays the CHUNYE MC7828G Digital Grain Moisture Meter, highlighting its main display, control buttons, and the connected cup sensor. Key specifications such as moisture range (7-30%), resolution (0.1), and the ability to measure 37 varieties are visible on the screen.

2. Safety Information

- Read all instructions carefully before operating the device.
- Do not expose the meter to extreme temperatures, humidity, or direct sunlight.
- Keep the device away from strong electromagnetic fields.
- Use only the specified battery type (4 x 1.5V AAA Size UM-4 Battery).
- Do not attempt to disassemble or modify the meter, as this will void the warranty and may cause damage.
- Ensure the cup sensor is clean and free of debris before each measurement to ensure accuracy.

3. Product Components

The CHUNYE MC7828G Digital Grain Moisture Meter typically includes the following components:

- Main Digital Display Unit
- Cup-Type Grain Sensor
- Connection Cable
- Cleaning Brush
- User Manual



This image presents all items included with the MC7828G moisture meter: the main digital display unit, the cup-type grain sensor, the connecting cable, and a cleaning brush for maintenance.

4. Setup

1. **Battery Installation:** Open the battery compartment cover on the back of the main unit. Insert four 1.5V AAA (UM-4) batteries, ensuring correct polarity. Close the battery compartment cover securely.
2. **Connect the Cup Sensor:** Carefully align the connector of the cup sensor cable with the port on the side of the main unit. Push firmly until it clicks into place, ensuring a secure connection.



A detailed view of the MC7828G meter's side, showing the secure connection port for the cup-type sensor cable, ensuring proper assembly.

5. Operating Instructions

1. **Power On:** Press the 'POWER' button to turn on the device. The LCD display will illuminate.
2. **Select Grain Type:** Use the 'SELECT' button to cycle through the available grain species. The selected grain type will be displayed on the screen. The meter can measure up to 37 different grain varieties.
3. **Fill the Cup Sensor:** Fill the cup sensor with the grain sample. Ensure the sample is representative and fills the cup adequately without overfilling or compacting excessively.
4. **Take Measurement:** Press the 'READ' button. The meter will perform the measurement and display the moisture content percentage on the LCD screen.
5. **Understand LED Indicators:** The device features a color-coded LED indicator for quick assessment:
    - **Green LED:** Represents a safe, air-dry state.
    - **Yellow LED:** Represents a borderline state, indicating caution.
    - **Red LED:** Represents a damp state, indicating high moisture.
6. **Zero Calibration:** If necessary, press the 'ZERO' button to perform a zero calibration before measurement, especially when changing grain types or if accuracy is critical.
7. **Data Storage:** The meter can store up to 240 groups of measurements. Refer to the on-screen prompts or specific button functions for saving and recalling data.
8. **Power Off:** The device has an intelligent energy-saving design with an automatic shutdown function. Alternatively, press and hold the 'POWER' button to manually turn off the meter.



This image shows the MC7828G meter connected to its cup-type sensor, demonstrating its use for measuring moisture in grains. The text indicates its application in allotment, acquisition, storage, and machining of packed grains, feedstuff, and powder.

6. Grain Species Measurement

The MC7828G is capable of measuring moisture content for up to 37 different grain species. Examples of supported grains include:

- Corn
- Seed
- Paddy
- Whole Rice
- Coffee
- Sesame
- Wheat
- And many more (up to 37 varieties)

The meter automatically obtains temperature-corrected moisture values for accurate readings across different environmental conditions.

7. Data Output

The MC7828G offers data output capabilities for connecting to a PC:

- **USB Data Output:** Connect the meter to a computer using a compatible USB cable for data transfer.
- **RS-232 Data Output:** Utilize the RS-232 port for serial data communication with a PC.

Specific software or drivers may be required for data communication. Refer to the manufacturer's website or included software for details.

8. Maintenance

- **Cleaning:** Use the provided cleaning brush or a soft, dry cloth to clean the cup sensor and the main unit after each use. Ensure no grain residue remains in the cup. Do not use abrasive cleaners or solvents.
- **Storage:** Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures. If storing for an extended period, remove the batteries to prevent leakage.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display to ensure accurate readings.

9. Troubleshooting

Problem	Possible Cause	Solution
Meter does not power on	Dead or incorrectly installed batteries	Replace batteries with new ones, ensuring correct polarity.
Inaccurate readings	Dirty sensor, incorrect grain type selected, or sensor not properly connected	Clean the sensor, verify the selected grain type, ensure the sensor cable is securely connected. Perform zero calibration.

Problem	Possible Cause	Solution
Display shows 'Low Battery'	Batteries are low	Replace all four AAA batteries.
No data output to PC	Incorrect cable, missing drivers, or software issue	Ensure correct USB/RS-232 cable is used. Install necessary drivers and software. Check PC connection settings.

10. Specifications

Parameter	Value
Grains Measured	Up to 37 Species (e.g., Corn, Seed, Paddy, Rice, Coffee, Sesame, Wheat)
Measuring Range	0 ~ 50%
Accuracy	±(0.5n% + 0.5)
Resolution	0.1
Display	4 Digits, 10 mm LCD with Color Coded LED Indicator
LED Indicator	Green (Safe), Yellow (Borderline), Red (Damp)
Calibration	Automatic
Data Storage	240 groups of measurements
Data Output	USB, RS-232
Operating Conditions	Temperature: 0 ~ 50 °C (32 ~ 122 °F), Humidity: < 90 %RH
Power Supply	4 x 1.5V AAA Size (UM-4) Battery
Dimensions (Main Unit)	Approximately 1.18 x 0.79 x 0.39 inches (Package Dimensions)
Item Weight	2.2 pounds

11. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the documentation included with your product or contact CHUNYE customer service through their official channels. Keep your purchase receipt as proof of purchase.

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