

VTSYIQI CMW-785P

VTSYIQI Digital Concrete Moisture Meter CMW-785P Instruction Manual

Model: CMW-785P

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your VTSYIQI Digital Concrete Moisture Meter, model CMW-785P. This device is designed for non-destructive measurement of moisture content in various materials, including concrete, wood, and glass, utilizing a search-type sensor. Please read this manual thoroughly before operation and retain it for future reference.

2. PRODUCT OVERVIEW

The VTSYIQI CMW-785P moisture meter features both digital display and color-coded LED indicators for clear moisture readings. It operates on a non-destructive search principle, making it suitable for finished surfaces.



Figure 2.1: Front view of the VTSYIQI CMW-785P Digital Concrete Moisture Meter with the sensor cap removed, showing the display and control buttons.



Figure 2.2: Back view of the VTSYIQI CMW-785P Digital Concrete Moisture Meter, illustrating the battery compartment cover and product label.

Your browser does not support the video tag.

Video 2.1: An overview of the VTSYIQI CMW-785P Digital Concrete Moisture Meter, demonstrating its physical appearance and components, including unboxing and handling.

3. SETUP

3.1 Battery Installation

1. Locate the battery compartment on the back of the meter (refer to Figure 2.2).
2. Slide the battery compartment cover downwards to open it.
3. Insert four (4) 1.5V AAA (UM-4) batteries, ensuring correct polarity (+/-).
4. Replace the battery compartment cover, sliding it upwards until it clicks securely into place.

3.2 Sensor Preparation

Before taking measurements, carefully remove the protective cap from the sensor area at the bottom of the meter. Ensure the sensor surface is clean and free from debris.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

- To power on the device, press the **POWER** button (usually the red button).
- To power off the device, press and hold the **POWER** button until the display turns off.

4.2 Selecting Measurement Code

The meter supports 20 different measurement codes for various materials. To select the appropriate code:

1. Press the **SELECT** button to cycle through the available material codes.
2. Refer to the material code chart (typically found in the included operation manual) to match the code with the material you are testing (e.g., concrete, wood type).

4.3 Zero Calibration

For optimal accuracy, perform a zero calibration before each use or when changing measurement conditions:

- Hold the meter in the air, away from any materials.
- Press the **ZERO** button. The display should show '0.0' or a value very close to zero.

4.4 Taking a Measurement

1. Ensure the correct material code is selected and zero calibration has been performed.
2. Place the sensor area of the meter flat against the surface of the material to be measured.
3. The moisture content will be displayed on the LCD screen.
4. The LED indicators will also provide a quick visual assessment of the moisture level:
 - **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.

4.5 Data Hold Function

To freeze the current reading on the display:

- Press the **HOLD** button during a measurement.
- Press the **HOLD** button again to release the reading and resume live measurement.

5. MAINTENANCE

5.1 Cleaning

- Wipe the meter's exterior with a soft, dry cloth.
- Do not use abrasive cleaners or solvents, as these may damage the casing or display.
- Keep the sensor area clean and free from dust or debris to ensure accurate readings.

5.2 Storage

- When not in use, replace the protective cap over the sensor.
- Store the meter in its carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.
- If storing for an extended period, remove the batteries to prevent leakage.

6. TROUBLESHOOTING

- **No Display / Meter Does Not Turn On:**

Check battery installation and ensure batteries are not depleted. Replace with fresh batteries if necessary.

- **Inaccurate Readings:**

Perform a zero calibration as described in Section 4.3. Ensure the sensor surface is clean. Verify that the correct material code is selected for the material being tested. Avoid measuring near strong electromagnetic fields.

- **LED Indicators Not Functioning:**

If the digital display is working but LEDs are not, ensure the meter is not in a hold mode. If the issue persists, contact customer support.

7. SPECIFICATIONS

Feature	Specification
Sensor Type	Search
Measurement Codes	20
Moisture Range	0~70%
Moisture Accuracy	$\pm(0.5\%n+0.5)$
Resolution	0.1
Display	LCD
LED Indicator	Green (safe/air-dry), Yellow (borderline), Red (damp)
Operating Conditions	Temperature: 0~50°C, Humidity: <90%RH
Power Supply	4x1.5V AAA (UM-4) Battery
Dimensions (Main Unit)	165x62x26 mm
Weight	119g

8. WARRANTY AND SUPPORT

Warranty information for this product is typically provided with the purchase documentation or on the product packaging. For specific warranty details, technical support, or service inquiries, please contact the seller, VETUS INDUSTRIAL CO.,LTD, or refer to the official VTSYIQI website. Keep your purchase receipt as proof of purchase for any warranty claims.