Wagner Meters C555

C555 Pinless Concrete Moisture Meter User Manual

Model: C555 | Brand: Wagner Meters

1. Introduction

The Wagner Meters C555 Pinless Concrete Moisture Meter is a non-destructive electronic device designed for fast and efficient moisture measurement in concrete and similar materials. It provides preliminary moisture assessments without causing surface damage, helping to identify potential problem areas and guide the placement of in-situ relative humidity (RH) sensors. This meter is fully compliant with ASTM F2659 for preliminary evaluation of comparative moisture conditions.

The C555 also features a built-in temperature and relative humidity sensor to monitor ambient conditions, which is crucial for assessing whether the environment is suitable for flooring installation.



Image: The C555 Pinless Concrete Moisture Meter, a yellow and black handheld device with a digital display and control buttons.

2. Included Components

Your C555 Pinless Concrete Moisture Meter package includes the following items:

- C555 Pinless Concrete Moisture Meter
- Paired On-Demand Calibrator
- Rubber Protective Boot
- Foam Lined ABS Plastic Carrying Case
- 9V Battery (included and pre-installed)
- Instruction Manual



Image: The C555 meter, its protective rubber boot, a gray calibrator platform, and the instruction manual, all arranged next to a black carrying case.

3. Setup

Before first use, ensure the 9V battery is properly installed. The meter comes with a battery pre-installed. For optimal performance, it is recommended to perform a calibration check before critical measurements.

3.1 Battery Installation

The C555 meter uses one 9V battery. To install or replace the battery, open the battery compartment located on the back of the device. Insert the 9V battery, ensuring correct polarity, then close the compartment securely.

3.2 Initial Power On

Press the **ON/HOLD** button to power on the device. The display will illuminate and show the current measurement mode.

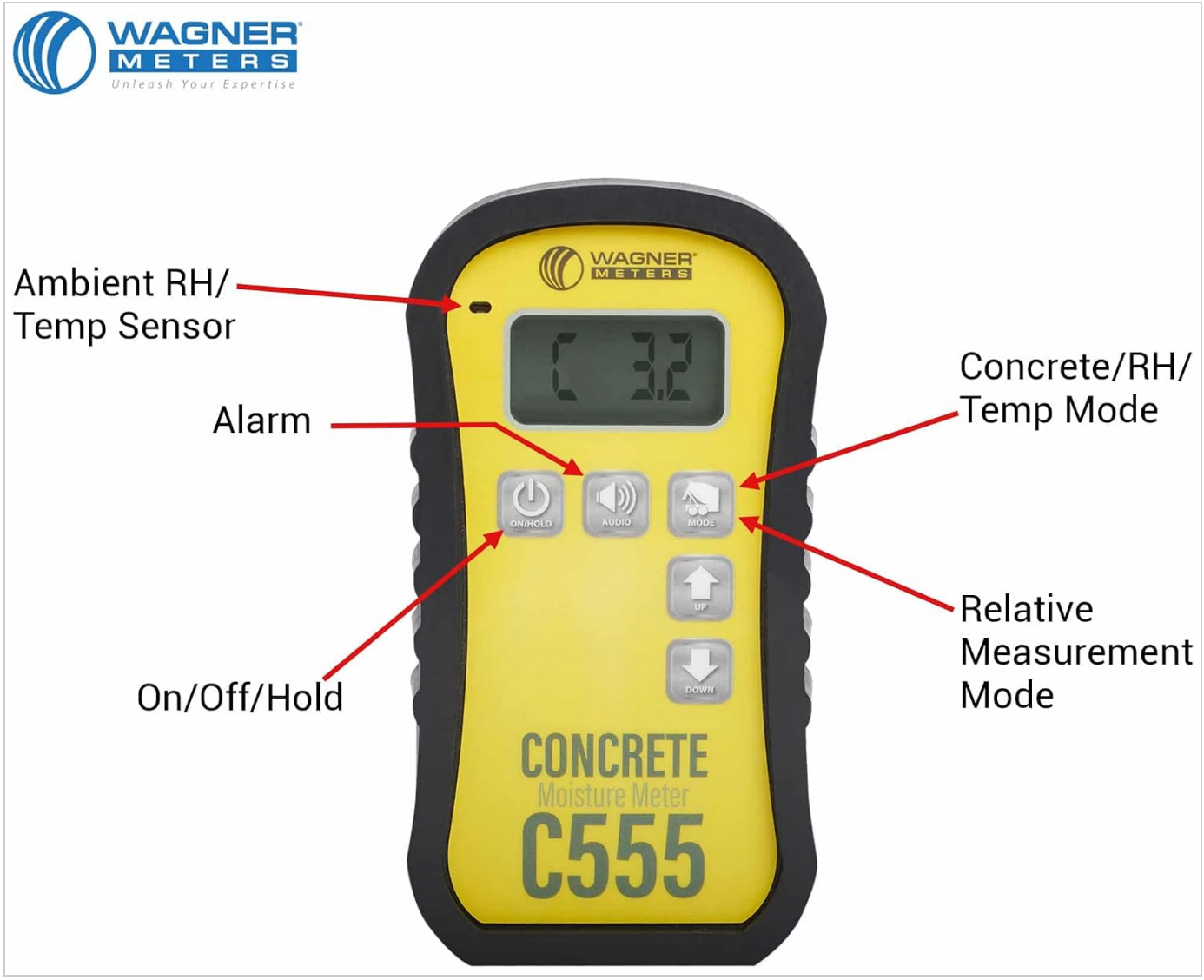


Image: A close-up of the C555 meter highlighting its Ambient RH/Temp Sensor, Alarm, On/Off/Hold button, Concrete/RH/Temp Mode button, and Relative Measurement Mode button.

4. Operating Instructions

The C555 offers several measurement modes to suit different applications. Ensure all surfaces to be measured are smooth to obtain the most accurate readings, allowing the entire sensor plate to make full contact.

4.1 Standard Measurement Mode (Concrete)

In this mode, the C555 measures moisture within a 0.0% to 6.9% moisture reading range for concrete. This mode is ideal for preliminary assessments to identify wet or dry areas.

1. Power on the meter. It typically defaults to the concrete measurement mode (indicated by 'C' on the display).
2. Place the sensor pad firmly and flat against the concrete surface.
3. Read the moisture percentage displayed on the screen.



Image: A person's hand holding the C555 meter flat against a concrete floor, demonstrating a measurement.

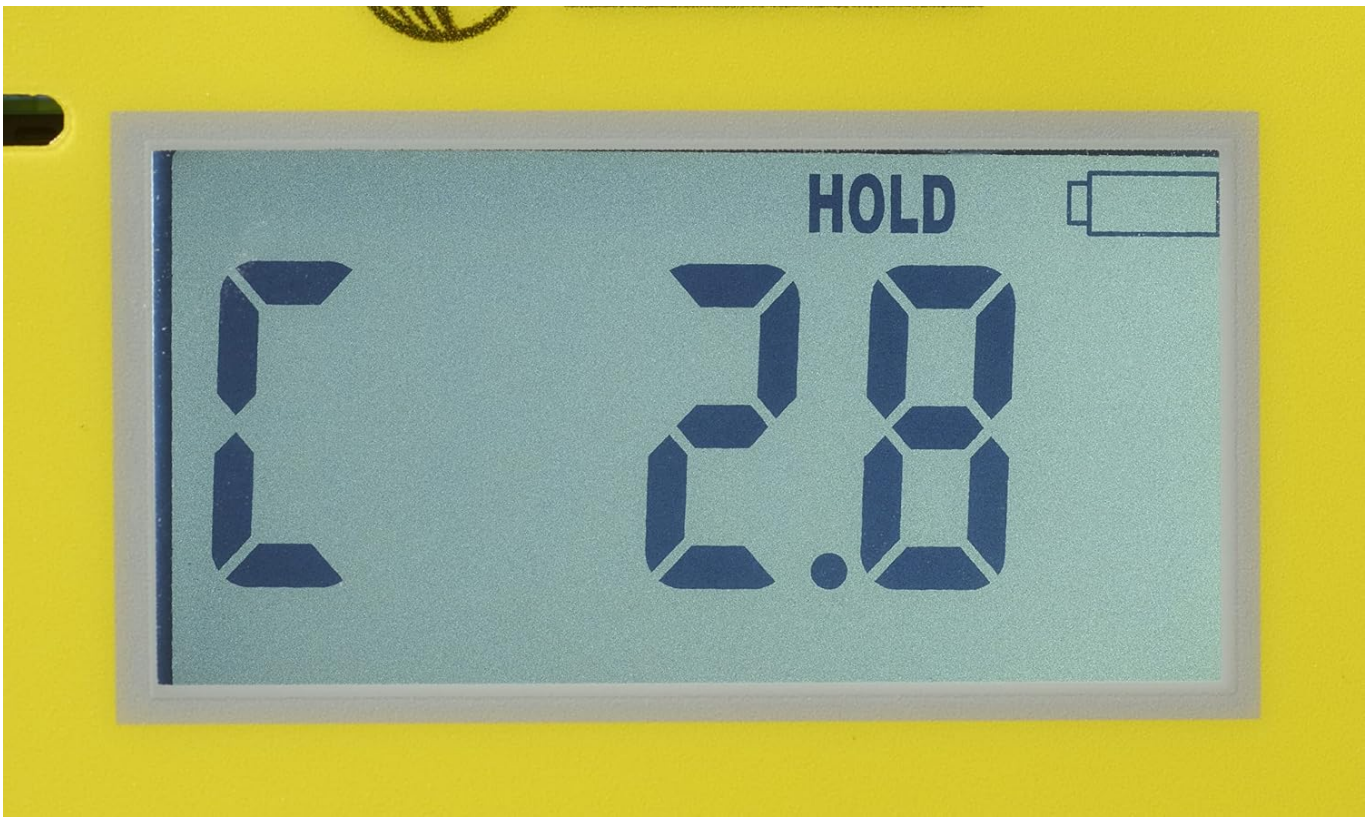


Image: A close-up of the C555 meter's digital display showing "C 2.8", indicating a concrete moisture reading of 2.8%.

4.2 Relative Measurement Mode

This mode provides a comparative indication of moisture in materials other than concrete, such as brick and gypsum,

using a numerical scale from 1 to 100. This is useful for identifying relative moisture differences across various materials.

1. From the standard measurement mode, press the**MODE** button until 'REL' or a similar indicator appears, followed by a numerical value.
2. Place the sensor pad firmly and flat against the material surface.
3. Observe the numerical reading on the display, which indicates the relative moisture level.

4.3 Monitoring Ambient Conditions (Temperature & Relative Humidity)

The C555 includes a built-in sensor to measure ambient temperature and relative humidity, which is vital for environmental assessment during flooring installations.

1. Press the **MODE** button repeatedly until the screen alternates between showing ambient temperature (TEMP) and relative humidity (RH).
2. The display will show RH percentage and temperature in degrees Fahrenheit (or Celsius, depending on settings) every 3.5 seconds.

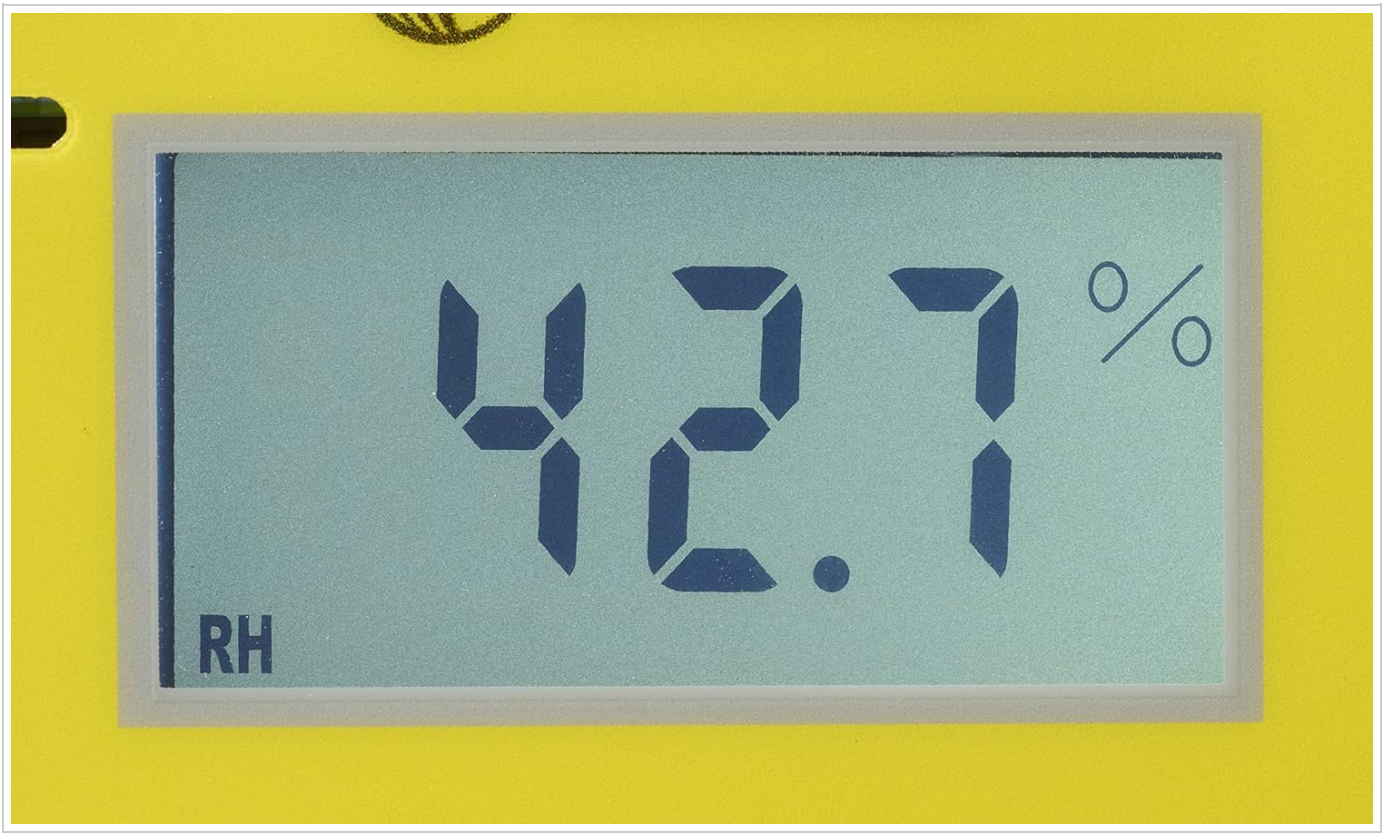


Image: A close-up of the C555 meter's digital display showing "RH 42.7%", indicating relative humidity.

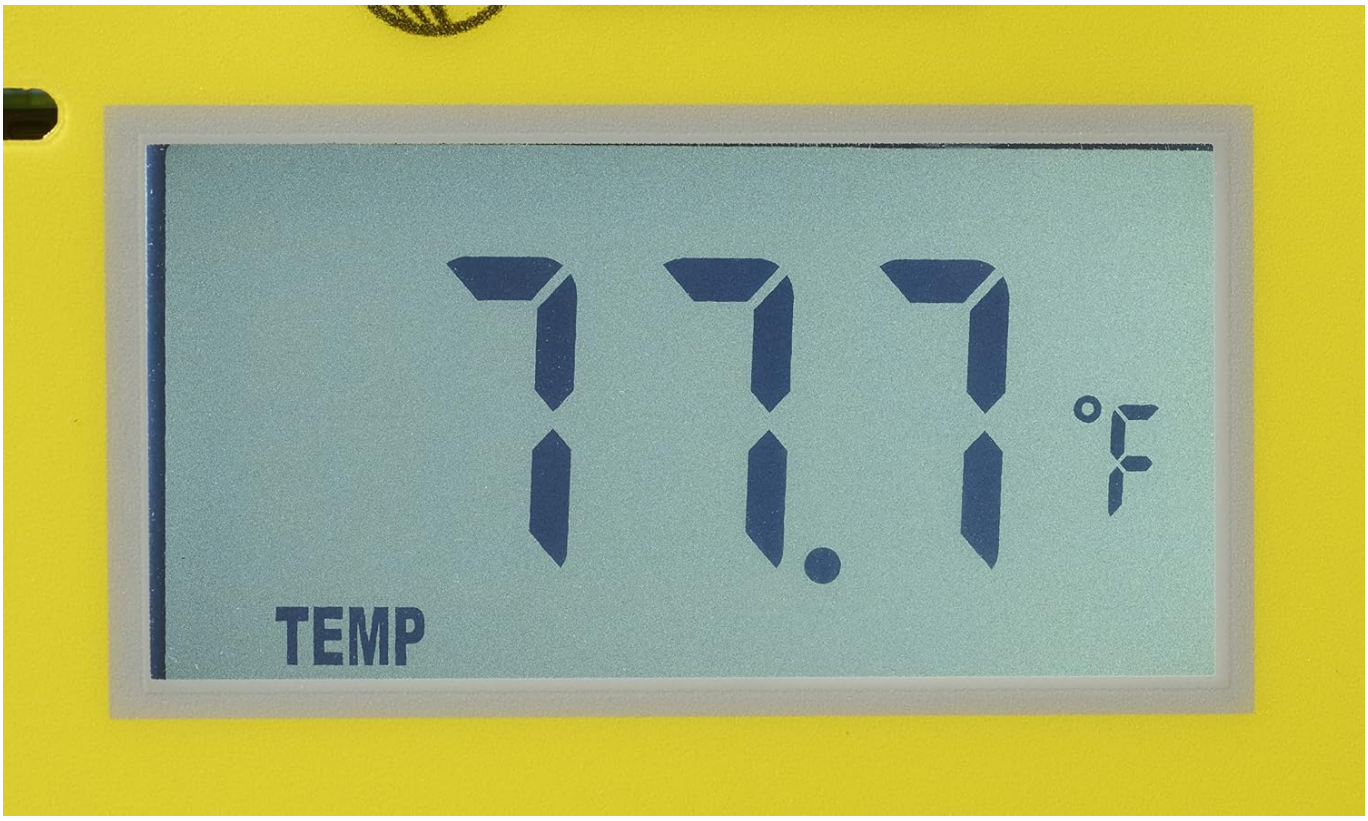


Image: A close-up of the C555 meter's digital display showing "TEMP 77.7°F", indicating ambient temperature.

4.4 Built-in Alarm

The C555 features a built-in alarm that can be set to notify you if moisture levels exceed a predefined threshold. This threshold is adjustable from 0.0% to 6.9%.

1. Refer to the full instruction manual for detailed steps on setting and adjusting the alarm threshold.

4.5 Backlit Screen

The meter is equipped with a backlit screen for enhanced readability in low-light conditions.

4.6 Official Product Videos

For visual guidance on using your C555 meter, please refer to the official product videos below:

C555 Common Uses

Your browser does not support the video tag.

Video: This video demonstrates the common uses of the C555 Concrete Moisture Meter, including how it detects moisture levels in concrete and similar materials for preliminary evaluation. It highlights the non-destructive nature of the device and its compliance with ASTM F2659.

Wagner Meters C555 Concrete Moisture Meter Kit - Pinless Handheld Concrete Moisture Meter

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Video: This video provides an overview of the Wagner Meters C555 Concrete Moisture Meter Kit, showcasing the pinless handheld meter and its features. It demonstrates how to use the meter for quick, non-destructive moisture readings on concrete surfaces.

5. Calibration Process

The C555 comes with an On-Demand Calibrator platform, allowing you to calibrate the meter back to original factory standards quickly. This ensures the accuracy of your measurements.

5.1 Pre-Calibration Check

1. Verify that the serial number on your On-Demand Calibrator matches the serial number of your C555 meter, which is located in the battery compartment.
2. Place the calibrator on its legs on a non-metallic surface.

5.2 Entering Calibration Mode

1. Turn the C555 meter on.
2. Press the **MODE** button repeatedly until 'CAL' appears on the display.



Image: A hand pressing a button on the C555 meter while it rests on the gray calibrator platform, with "CAL" displayed on the screen.

5.3 Performing Calibration

1. Place the meter's sensor pad directly within the recessed area of the calibrator platform. Ensure it is seated entirely within the yellow marked area. Failure to do so will cause inaccurate calibration.
2. Move the meter slightly back and forth and side to side to ensure the sensor pad is firmly within the recessed area.
3. Apply light downward pressure and push the **AUDIO** button three times. The meter will beep three times to confirm the calibration process.
4. When the process is complete, the meter will display the word 'LIFt'.
5. Immediately lift the meter into the air for approximately 5 seconds until the word 'donE' appears on the display. During this step, keep your fingers and other objects clear of the back side of the meter.
6. Press the **ON/HOLD** button to return the meter to normal measuring mode.



Image: The C555 meter shown alongside its black rubber protective boot, which can be removed or applied.

6. Maintenance

Proper maintenance ensures the longevity and accuracy of your C555 meter.

- **Cleaning:** Wipe the meter with a soft, dry cloth. Do not use abrasive cleaners or solvents. Keep the sensor pad clean and free of debris.
- **Storage:** Store the meter in its foam-lined ABS plastic carrying case when not in use to protect it from dust, moisture, and physical damage. Store in a cool, dry place.
- **Battery Replacement:** Replace the 9V battery when the low battery indicator appears on the display to ensure consistent performance.
- **NIST Traceable:** The C555 is NIST traceable, meaning its calibration can be verified to national standards.
- **Calibration Check:** Perform regular calibration checks using the On-Demand Calibrator, especially before critical measurements or if you suspect inaccurate readings.

7. Troubleshooting

If you encounter issues with your C555 meter, try the following basic troubleshooting steps:

- **No Power:** Check if the 9V battery is correctly installed and has sufficient charge. Replace the battery if necessary.
- **Inaccurate Readings:**

- Ensure the sensor pad is making full, flat contact with a smooth surface.
- Perform a calibration using the On-Demand Calibrator.
- Verify that you are using the correct measurement mode for the material being tested.

- **Display Issues:** If the display is dim or flickering, replace the battery.
- **Meter Not Responding:** Try removing and reinserting the battery. If the issue persists, contact Wagner Meters customer support.

For more detailed troubleshooting, refer to the comprehensive instruction manual provided with your device.

8. Specifications

Feature	Detail
Manufacturer	Wagner Meters
Part Number	890-00555-002
Item Weight	7.2 ounces
Product Dimensions	5.75 x 3 x 1 inches
Country of Origin	USA
Item Model Number	C555
Batteries	1 9V battery required (included)
Size	C555 Meter with NIST Certificate
Material	Plastic, Rubber, Teflon
Power Source	Battery Powered
Item Package Quantity	1
Included Components	Paired On-Demand Calibrator, Rubber Protective Boot, Foam Lined ABS Plastic Carrying Case, 9V Battery, Instruction Manual
Battery Cell Type	Alkaline

9. Warranty and Support

For information regarding product warranty, technical support, or service, please refer to the official Wagner Meters website or the contact information provided in your instruction manual. Keep your purchase receipt for warranty claims.

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Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question