

Tramex CMEX2

Tramex CMEX2 CMEXpert II Moisture Meter

User Manual

1. INTRODUCTION

The Tramex CMEX2 CMEXpert II is a digital, non-destructive moisture meter designed for instant and accurate measurement of moisture content in concrete and other floor screeds. This device is a digital version of the CME4 handheld electrical moisture meter. It features plug-in ports for optional Hygro-i relative humidity probes and heavy-duty wood probes, making it a versatile instrument for professionals in flooring and construction.

2. SAFETY INFORMATION

Please read and understand all safety instructions before operating the Tramex CMEX2 CMEXpert II moisture meter. Failure to follow these instructions may result in injury or damage to the device.

- **General Safety:** Keep the device away from water and extreme temperatures. Do not attempt to open or modify the device.
- **Battery Safety:** Use only the specified battery type. Do not mix old and new batteries. Dispose of batteries according to local regulations.
- **Handling:** Handle the device with care. Avoid dropping or subjecting it to strong impacts.

3. PRODUCT OVERVIEW

The Tramex CMEX2 CMEXpert II features a robust design with a clear digital display and intuitive controls. It is equipped with internal sensors for non-destructive moisture measurement and external ports for optional probes.



Figure 1: Close-up view of the Tramex CMEX2 CMEXpert II digital display. The screen clearly shows 'CONCRETE MC 4.8%', indicating a moisture content reading of 4.8% in concrete. The device features several control buttons for navigation and operation.

Key Features:

- Large, clear backlit digital display for easy readability.
- Hold function to freeze meter readings for convenient inspection.
- Connectable ports for optional Hygro-i relative humidity probes and heavy-duty wood probes.
- Measures up to 6.9% moisture content in concrete.

4. SETUP

4.1 Battery Installation

1. Locate the battery compartment cover on the back of the device.
2. Open the cover by sliding or unscrewing it as indicated.
3. Insert the required batteries, ensuring correct polarity (+/-).
4. Replace the battery compartment cover securely.

4.2 Initial Power On

Press the power button to turn on the device. The backlit digital display should illuminate, and the device will perform a brief self-check before entering measurement mode.

5. OPERATING INSTRUCTIONS

5.1 Measuring Concrete Moisture

1. Ensure the device is powered on and in the correct mode for concrete measurement.
2. Place the device firmly onto the surface of the concrete or floor screed to be measured. Ensure full

contact between the device's sensors and the material.

3. Read the moisture content percentage displayed on the large digital screen. The device can measure up to 6.9% moisture content in concrete.



Figure 2: A construction worker, wearing a hard hat and safety vest, kneels to use the Tramex CMEX2 CMEXpert II moisture meter on a concrete floor. The device is placed flat on the surface to take a reading. In the background, a carrying case with additional probes and equipment is visible.

5.2 Using the Hold Function

The 'Hold' function allows you to freeze the current moisture reading on the display. This is particularly useful when inspecting areas where the meter's surface is not easily visible during measurement.

1. Take a measurement as described above.
2. While the reading is displayed, press the 'Hold' button (refer to device's button layout for exact location).
3. The displayed reading will be frozen. You can now lift the device and view the measurement.
4. Press the 'Hold' button again to release the reading and return to live measurement mode.

5.3 Optional Probes

The CMEX2 CMEXpert II is compatible with optional external probes to expand its measurement capabilities:

- **Hygro-i Relative Humidity Probe:** Connect this probe to the designated port for in-situ testing of concrete to international standards such as BS 8201, 8203, 5325, and ASTM F2170. This allows for accurate relative humidity measurements within the concrete slab.
- **Heavy-Duty Wood Pin Probe:** Attach this probe for measuring moisture content in wood, with a range of 7% to 40%. Follow the instructions provided with the wood probe for proper usage.

6. MAINTENANCE

6.1 Cleaning

To clean the device, wipe it with a soft, dry cloth. Do not use abrasive cleaners or solvents, as these can damage the casing or display. Ensure the device is dry before storage.

6.2 Storage

Store the Tramex CMEX2 CMEXpert II in its protective case in a cool, dry place when not in use. Remove batteries if the device will not be used for an extended period to prevent leakage.

6.3 Calibration

For optimal accuracy, periodic calibration of your Tramex CMEX2 CMEXpert II is recommended. Refer to the Tramex website or contact customer support for information on calibration services and intervals.

7. TROUBLESHOOTING

If you encounter issues with your Tramex CMEX2 CMEXpert II, refer to the following common problems and solutions:

- **Device does not power on:** Check battery installation and ensure batteries are not depleted. Replace if necessary.
- **Inaccurate readings:** Ensure the device is making full contact with the surface. Verify that the correct measurement mode is selected. Consider professional calibration if issues persist.
- **Display is blank or flickering:** Check battery level. If problem persists, contact customer support.

8. SPECIFICATIONS

Specification	Detail
Brand	Tramex
Model	CMEX2
Item Number	CMEX2
Measurement Range (Concrete)	Up to 6.9% Moisture Content
Measurement Range (Wood, with optional probe)	7% to 40% Moisture Content
Display	Large, clear backlit digital display
Special Features	Connectable ports for optional Hygro-i humidity probe and heavy-duty wood probe, Hold function
Item Weight	1 Pound
UPC	094716068089
ASIN	B00XTUCXVC

9. WARRANTY INFORMATION

Tramex products are manufactured to high standards and are typically covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, including duration and coverage details, please refer to the warranty card included with your product or visit the official Tramex website. Keep your proof of purchase for warranty claims.

10. CUSTOMER SUPPORT

If you require further assistance, have questions about your Tramex CMEX2 CMEXpert II, or need to arrange for service or calibration, please contact Tramex customer support. Contact information, including phone numbers and email addresses, can typically be found on the Tramex official website or in the product packaging.