

# PosiTest® **CMM**

*Concrete Moisture Meter*

Instruction Manual



**DeFelsko®**  
The Measure of Quality

## Introduction

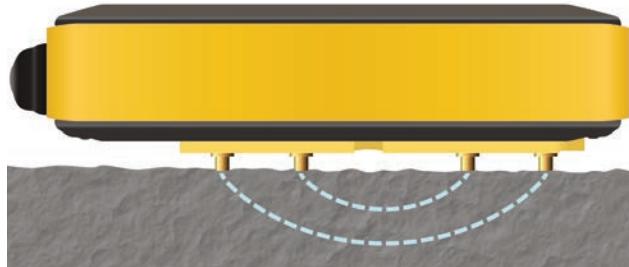
The **PosiTest CMM Concrete Moisture Meter** uses the principle of electrical impedance specifically calibrated for comparative moisture measurements of concrete.

Accurate and simple to operate, the nondestructive **PosiTest CMM** records up to 200 measurements for download to a computer with the included USB cable.

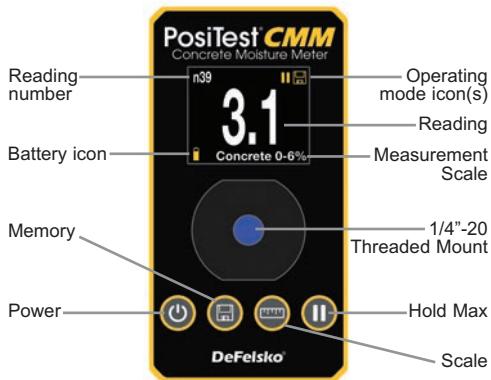
## Quick Start

Before measuring with the **PosiTest CMM**, ensure that the concrete surface is bare (uncoated), and free of dirt, dust, or standing water. Inspect the spring-loaded sensor pins on the underside of the gage and remove any dust or debris.

1. Press  to power up the Meter.
2. Verify operation using the included Check Standard (see instructions on Check Standard).
3. Press  to select the desired measurement scale (pg. 3).
4. Press  to select between the 3 operating modes (pg. 3).
5. Place the Meter onto the concrete surface and press down to fully compress the sensor pins. The sensor pins are designed to measure accurately on smooth, rough, or uneven concrete surfaces.



**NOTE:** It is suggested that the Meter operator take 3 - 4 measurements in close proximity to one another, noting the maximum measurement value for that inspection area. Using the **Hold Max** mode (pg. 3) makes this process rapid and convenient.



Power

- Press once to power up the **PosiTec CMM**
- Press and hold for 3 seconds to power down
- When powered down, press and hold to display the gage serial number

**NOTE:** To conserve battery life, the **PosiTec CMM** automatically turns off after 3 minutes of no activity.



Memory

- Press once to record the displayed measurement into memory. An on-screen memory counter will show the current reading number "n". The **PosiTec CMM** stores up to 200 readings for download to PosiSoft Desktop Software (pg. 4).
- **Memory Review Mode** — To review stored measurements, press and hold the Memory button until the "n/n" memory indicator appears alongside the most recent saved reading. Press the Memory button again to cycle through the readings in memory. Press the Power button to exit **Memory Review Mode**.
- To clear memory, press and hold the Memory and Power buttons until the memory counter displays "n0".

**NOTE:** While **Memory Review Mode** is active, the **PosiTec CMM** will not take or record measurements.



Scale

- Press to select the desired measurement scale:
- **Concrete 0 to 6%**: Used for measuring on concrete slabs. This scale is calibrated using the gravimetric method (percentage of dry weight).
- **Carbide Method 0 to 4%**: Used for measuring on concrete slabs. This scale is equivalent to the Carbide method.
- **Relative 0 to 100**: Used for taking readings for reference comparisons. This scale does not indicate moisture content or humidity.

■ Press to toggle between the 3 operating modes:

- **Continuous Measurement Mode** (no icon): The Meter continuously updates the display with the current measurement value (this is the default operating mode).
- **Hold Max Mode**
: The Meter updates the display only when the current measurement is greater than what is already displayed. Press the Memory button to record the displayed measurement into memory and reset the display. Press the power button to reset the display without recording the measurement.- **Hold Max & Save Mode**
: The Meter updates the display only when the current measurement is greater than what is already displayed. Once stabilized, the measurement will automatically be stored in memory.

**NOTE:** **Hold Max & Save Mode** is ideal for quickly measuring and recording measurements on a large surface especially when used with the optional **Telescopic Extender** (CMMEXT).

*Telescopic Extender:  
Ergonomically measure  
concrete slabs without the  
need to bend or kneel.*



**1/4"-20 Threaded Mount**  
Convenient and secure  
mounting point for the  
Telescopic Extender  
accessory.



**USB Port**  
Connect the supplied  
USB cable to download  
recorded measurements.

**IMPORTANT:** Ensure that the USB protective cover is secured  
over the USB port prior to taking measurements.

**Battery Compartment**  
The PosiTest CMM is  
powered by (2) AAA  
batteries (included). When  
replacement is required,  
unscrew the compartment  
cover to access the  
batteries. Be sure to  
observe the correct polarity  
by inserting the  
+ terminal of each  
new battery first into  
the compartment.



### Accessing Stored Measurement Data

**PosiSoft Desktop** - Powerful desktop software (PC/Mac) for  
downloading, viewing, printing, and storing measurement data.  
Includes a customizable, templated PDF Report Generator.

### Technical Data

<b>Measurement Scales</b>	0 to 6% Moisture content of concrete 0 to 4% Carbide Method equivalent 0 to 100 Relative
<b>Accuracy</b>	± 0.5% Moisture content of Concrete
<b>Depth of Penetration</b>	20 mm 0.75"
<b>Temperature Range</b>	5°C to 40°C 40°F to 105°F
<b>IP Rating</b>	65
<b>Power</b>	2 AAA Alkaline Batteries
<b>Size</b>	89 mm x 152 mm x 38 mm 3.5" x 6" x 1.5"
<b>Weight</b> including batteries	295 g 0.65 lbs.

## **Troubleshooting and Returning for Service**

Before returning your **PosiTector CMM** for service, first perform the following actions:

1. Install new batteries in the proper alignment (pg. 4).
2. Examine the sensor pins and remove any debris or dust.
3. Ensure the concrete surface is bare (uncoated) and free of dirt, dust, or standing water.

**IMPORTANT:**

If these steps do not resolve the issue, visit our Service & Support page for information on returning your Meter for a no-charge evaluation.

## **Limited Warranty, Sole Remedy and Limited Liability**

DeFelsko's sole warranty, remedy, and liability are the express limited warranty, remedy, and limited liability that are set forth on its website:

© 2021 DeFelsko Corporation USA All Rights Reserved

This manual is copyrighted with all rights reserved and may not be reproduced or transmitted, in whole or part, by any means, without written permission from DeFelsko Corporation.

DeFelsko, PosiTector, and PosiSoft are trademarks of DeFelsko Corporation registered in the U.S. and in other countries. Other brand or product names are trademarks or registered trademarks of their respective holders.

Every effort has been made to ensure that the information in this manual is accurate. DeFelsko is not responsible for printing or clerical errors.