MENU

The following functions are available under the MENU key. Press the Number Key which corresponds to the Menu Option you wish to access.

1- Stat Test – Tests the electronic stability of the gauge.

2- Drift Test – Tests for electronic drift.

3- Recall – Allows the user to retrieve the most recent gauge test results.

4- Auto-Depth – Enable/Disable the Auto-Depth feature. Calibrate the Auto-Depth feature.

5- Offset – This mode provides three different offset functions, Moisture, Density and Trench correction. Use this function to offset factory calibration readings or correct for trench wall influence in the field. Use the DOWN for (-), UP for (+).

6- Diagnostic Tests– Measure battery voltage, measure high voltage, measure temperature, reset memory, clears all data from the gauge. This function is for Advanced Technicians Only.

7- Review Standard Counts– View the last 30 STD Counts and date collected.

8- Language - Select English or Spanish.

9- Standard Mode – Select Average Standard Mode or Decay Mode.

10- Auto Scroll – Helps users during recording of data in the field. The test screens automatically scroll every 5 seconds.

11- Set Units – Allows the user to change units between lb/ft3, kg/m3, and g/cc.

12- LCD light – Allows easy viewing of data and keypad during night work.

13- Serial Number – Allows entry of the gauge serial number.

14- Date/Time – Set the current date and time.

15- Buzzer / Alarm – Enable or disable the Buzzer alarm feature.

16- Special Calibration – Allows adjustment of calibration constants for local or special materials.

17- Thinlayer Mode – Allows the gauge to be used on thin layer asphalt over soil or aggregate bases. Use BS or AC depths for asphalt on asphalt overlays.

18- Calibration Constants – Allows entry and storage of calibration constants used for determination of material density and moisture. This function is for Authorized Users Only. *Note: When entering the MC1DRP moisture constants into the SMART-MC, change the sign on moisture B value from negative to positive.*

SMART-MC™
Installation & Quick Start Guide

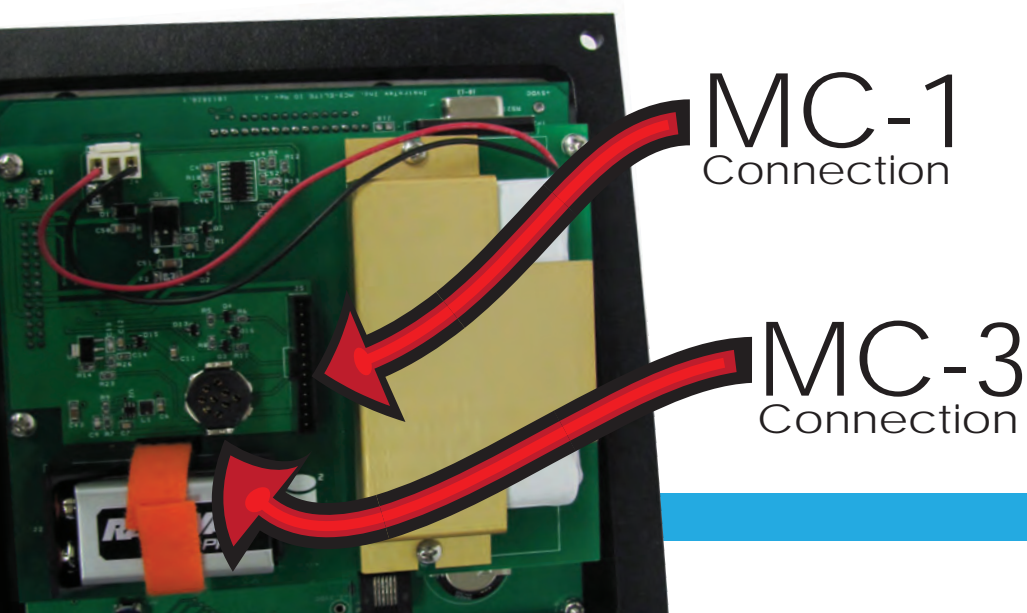# 919.875.8371
Raleigh, North Carolina
www.instrotek.com

InstroTek® Inc.

SMART-MC™
Installation Instructions

1 - Remove the four allen screws on the electronic stack assembly.

2 - Disconnect the harness (cables) from the electronic stack assembly.

3 - Plug the harness (cables) into the new SMART-MC Board.

4 - Place the new SMART-MC Board onto the gauge.

5 - Replace the four screws removed in the first step.

6 - Installation is complete.

7 - Charge the gauge for four hours.

8 - Input Calibration Constants.*

9 - Take a new STD count and start using the gauge.

* When entering the MC1DRP moisture constants into the SMART-MC, change the sign on moisture B value from negative to positive. Download the MC-3 Elite Manual from www.instrotek.com/downloads

MC-1 Connection

MC-3 Connection

InstroTek ®
SMART-MC™
Quick Start Instructions

The following instructions are intended to aid the user in the operations of the SMART-MC functions. Please read the MC-3 Elite manual before operating this gauge. The manual may be downloaded at www.instrotek.com/downloads.

ON YES — Use this key to power on the gauge. When the gauge is on, use this key to answer YES to questions asked during the operation of the gauge.

OFF NO — Use this key to power off the gauge. When the gauge is on, use this key to answer NO to questions asked during the operation of the gauge.

STD — Use this key to take a Daily Reference Standard Count. Place your gauge on top of the polyethylene reference block on top of a solid surface (soil, asphalt, or concrete) press this key and follow gauge prompts. A new standard count is accumulated and is used in the gauge calculations until another reference standard count is collected. Powering off the gauge will not erase the most recent standard count.

TIME — Use this key to adjust the measurement count time. The time of measurement options are: 15-seconds, 30-seconds, 1-minute, and 4-minutes. Press the TIME key, use UP and DOWN to change, and follow the screen prompts to select the time. Press the YES key to return to the <READY> screen.

PROJECT PRINT — Use this key to access the Project storage. Auto-Store may be enabled or disabled. Projects may be created, selected, reviewed, deleted, or sent to a printer or USB drive. Use the UP or DOWN button to advance through the letters assigned to the button.

STORE — Press this key to manually store a measurement into a project after a measurement is completed

MA PR — Use this key to enter your laboratory measured density values such as Marshall, Proctor, or Maximum density in the Gauge. Use the Number keys to input the desired values. Press the ENTER key after completing the entry to accept the input value. The gauge uses this value to calculate %PR for soil and aggregate or %MA for asphalt. %MA is defined as the calculated percentage of the gauge density value relative to the value of maximum density entered by the operator. It can also be used for determination of %Compaction. The most recently added entry is stored in the gauge.