

InstroTek

Model 3500 **X**plorer™

Quick Start Instructions

This Quick Instructions document assumes that the operator is familiar with the applications of the Xplorer 3500 nuclear moisture/density gauge. The following instructions are intended to aid the user in the operations of the Xplorer functions. For a detailed description of the applications of the gauge, please refer to the operators manual.

**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 operations 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 operations 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 stored in the gauge 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 and follow the screen prompts to adjust the time. Press the YES key to return to the <READY> screen.

DEPTH

Use this key to adjust the depth measurement form 0 to 12 inches (0 to 300mm). Press the DEPTH key and follow the prompts to set the desired depth of measurement. Press the YES key to return to the <READY> screen.

**MA
PR**

Use this key to enter your laboratory measured density values such as Marshall, Proctor, or Maximum density in the Gauge. Press the UP or DOWN key to change the number and ENTER to select. 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 deteremation of %Compaction. The most recently added entry is stored in the gauge.

**MENU**

The following functions are available under the MENU key. Press the DOWN key to scroll through the options and the ENTER key to select that menu function.

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

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.

Stat Test – Tests the electronic stability of the gauge.

Drift Test – Tests for electronic drift.

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

Set Units – Allows the user to change units between lb/ft³ and kg/m³.

LCD Backlight – Allows easy viewing of data during night work.

Calibration Constants – Accepts entry and stores calibration constants used for determination of material density and moisture. This function is for authorized users only.

Memory Clear – Clears all data from the gauge. This function is for authorized trained technicians only.

Special Calibration – Allows adjustment of calibration constants for local and special materials.

Thinlayer Mode – Allows the gauge to be used on thin layer asphalt overlays.

Serial Number – Allows entry of the gauge serial number.

Bat Volt (Battery Voltage) – indicates battery voltage status

AVG STD Mode – Enable/Disable Average Standard Mode.

Auto-Depth – Enable/Disable the Auto-Depth feature (if equipped).

Auto-Depth Cal – Calibrate the Auto-Depth feature (if equipped).