Spectrum
Technologies, Inc.
"To Measure Is To Know"

Quick Start Guide
TDR Soil Moisture Meters
(TDR150, TDR250, TDR350)

FIELDSCOUT

1

Unbox TDR Soil Moisture Meter. Pull the clear battery transport tab out of the display.

For all Meters, locate the TDR rods and screw them into the sensor block and tighten.

2

For **TDR350**, remove the thumb screw. Grip and extend the lower shaft to its new position, re-insert the thumb screw and hand tighten.

3

Press the **ON/OFF** button to turn the unit on. Model #, Serial # and FirmWare Version are viewable.
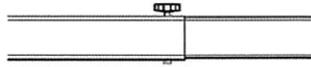
4

Press **MENU/SELECT** button for the settings menu.

Press the DOWN arrow to navigate to Rod Length, then press SELECT until the correct rod length is displayed.

5

Similarly, select Soil Type, Moisture Type, Temp Source and Moisture Type.

Enable GNSS and Bluetooth for **TDR150 & TDR350** meters that will use the FieldScout App.

Adjust the Current Date, Time and Time Zone as needed.

6

To take a measurement, **fully insert the** rods into the soil and then press the Read button.

The results **will display** on the screen.

7

For the **TDR250**, download data by inserting a FAT32 formatted flash drive into the USB port on the meter.

Press **MENU/SELECT** button for settings menu. Scroll to Save to USB and press **MENU/SELECT** button again.

It will save stored data as a comma separated text file (csv).

1
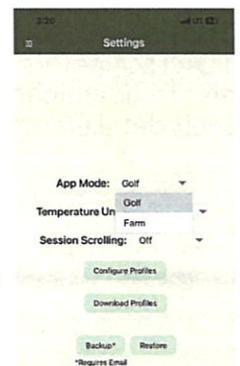
For **TDR150 & TDR350**, download the FieldScout App.

Login to SpecConnect if you have an account or use FieldScout Basic without signing in.

2

For the app interfacing **TDR150 & TDR350**, if geo-referencing data, wait for the GNSS icon to fully darken before taking a reading. This ensures the meter has located at least 10 satellites.

Sats: 06
HDoP: 1.51
TDR 300
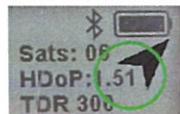
3

Open the FieldScout App, select **Settings** from the Home Menu and choose the **App Mode: Golf or Farm.**

Settings

App Mode: Golf
Golf
Temperature Un
Farm
Session Scrolling: Off

Configure Profiles

Download Profiles

Backup* Restore
*Requires Email

4 Add a new Course or Farm by selecting **Course or Farm** from the Home menu.

5 Start a new Session by clicking the + on the right.
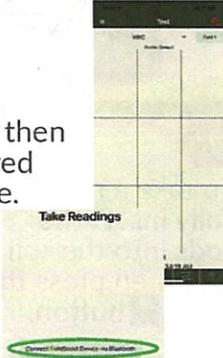
Choose your product, name your session and **Save**.

6 Select the Session and choose **Grid** or **Freeform**.

7 *Grid Mode* For Grid Mode, select **Grid** and then select the desired area to measure. Tap a zone.

Initiate pairing by tapping **Connect FieldScout Device via Bluetooth.**

8 *Grid Mode* Fully insert the rods into the soil and then press the Read ▼ button on your TDR.
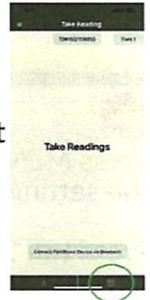
The results will display on the screen and in the App.

Average VWC is shown in each grid cell

9 *Grid Mode* Press the grid icon to return to the main grid screen and select the next sampling zone and take your next reading.

Basic Grid Mode is available with or without a SpecConnect subscription.

10 *Freeform Mode* Freeform Mode is available **with SpecConnect only.**

For Freeform Mode, select **Freeform**. Initiate pairing by tapping **Connect FieldScout Device via Bluetooth.**

11 *Freeform Mode* Fully insert the rods into the soil and then press the Read ▼ button on your TDR.

The results will display on the screen and in the App.

12 *Freeform Mode* Locations are tracked **automatically by GNSS**. Data is instantaneously sent to SpecConnect for viewing as plotted data points.

Color coded location icons are shown at every measurement spot

13 Scan the QR code **for information** on the TDR350, TDR250 and TDR150 meters and to download their detailed product manuals.

14 Scan the QR code to view the FieldScout Mobile App user manual **for additional** details on using the app.