TrodX

User Manual
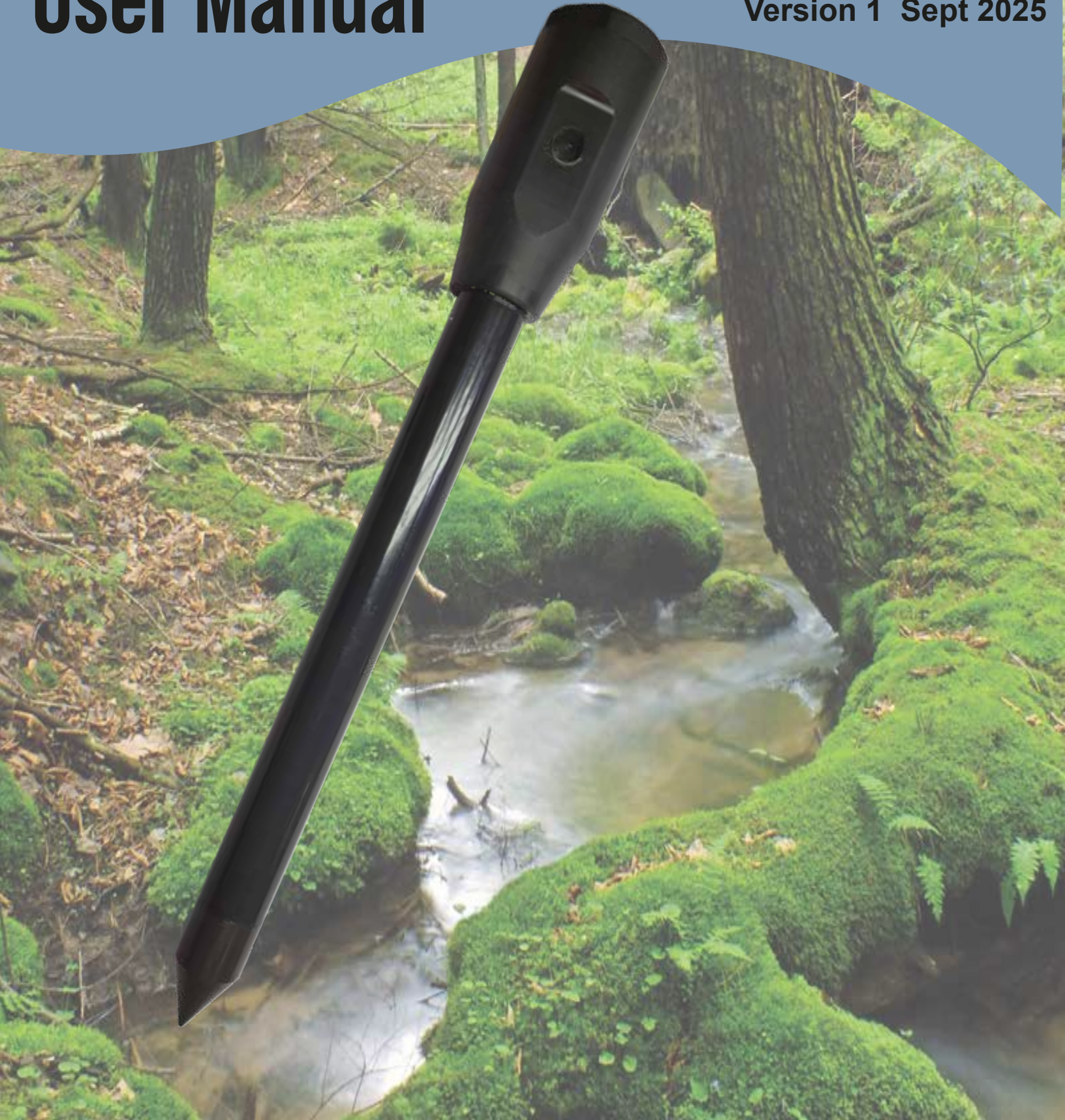
Ground Temperature Profiling Probe

Version 1 Sept 2025

Activating the TrodX

1. Activation

Slowly apply the MagicWand supplied over the TrodX's head viewport and remove after one second. A strong magnet can also be used instead of the MagicWand.

Check if the intermittent greeen led is flashing.

Proceed with the network connection by using your phone «hotspot» connection.

2. Activation with external controller

Tap magnet or MagicWand supplied over the seriel number visible through the clear PVC tube.

Check if the intermittent green led is flashing.

Proceed with the network connection by using your phone «hotspot» connection.

Setting Hotspot Connexion

(A) (B)
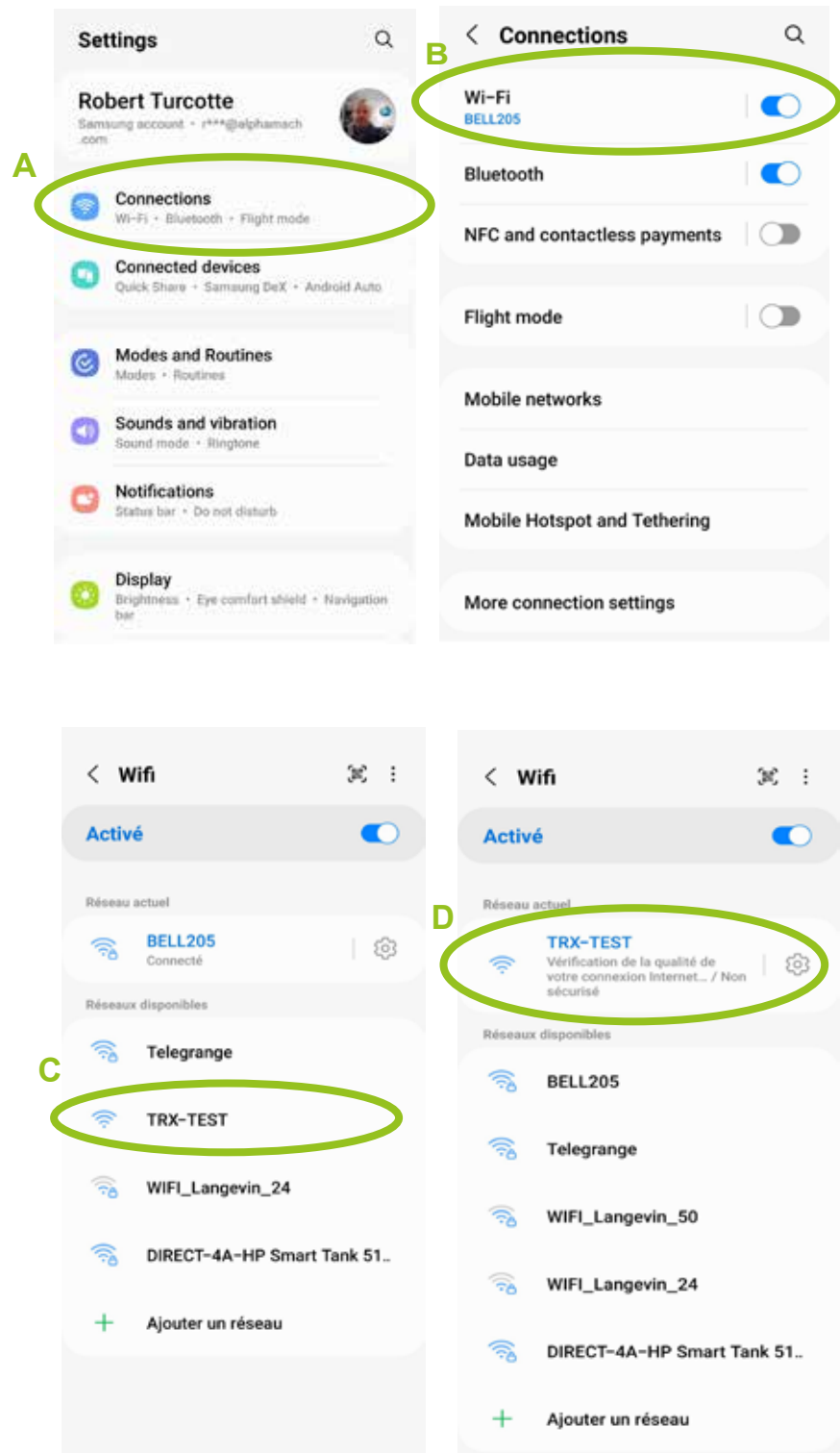On your phone, go to
the WIFI connexion settings.

(C)
When the TrodX flashes its
green LED, it provides an
access point named by its
serial number. Click on it to
connect the phone WIFI to
the TrodX

(D)
The phone will connect to the
TrodX. You may get an warning
that the internet connection
is invalid because this TrodX
network is not connected to
the WWW net. This is normal.
Mobile data might need to be
deactivated beforehand in
order to properly connect to
the TrodX .

NOTE:
The TrodX is programmed to
shut down its access point if
no interaction have occurred
during 60 seconds. The access
point may also shutdown if the
TrodX has to take a
measurement from its sensors.
In this case, reactivate the
TrodX with the magnet again.

Connexion and Missionning

Once the WIFI connection is established, open a Web Browser, such as Google Chrome and type the address 192.168.4.1. The address can be added to the favorites to get rapid access.
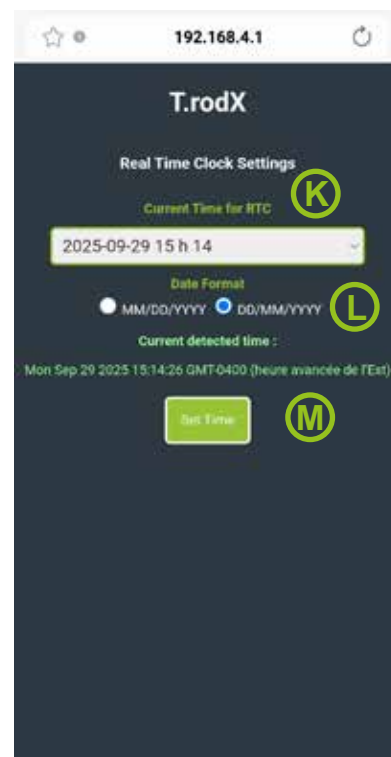
You will get a window with the TrodX serial number (E) and its status: (F)
«STOP»
«MISSION PROGRAMMED»
«RUNNING»

The first action to do is to set the Date and Time. Click on the «SET TIME» (G). If a time was already set, you can also use the link: (J)
«Wrong date/time? Click Here».

The «Fast Sampling Test» button (H) provides mesurementson all sensors in real time. To get updated measurements, refresh the page by pressing on the refresh icon (I).

On the Real Time Clock Settings, select your date and time (K), also SELECT the proper date format for your region (L) MM/DD/YYYY for the USA or DD/MM/YYYY for Europe. Once set, press the «SET TIME» Button (M) .

The next window will automatically be for Missionning the TrodX.

Stop and Download

Select the START TIME (N) if required. Otherwise the mission will start in two minutes.

Enter the sampling rate (O) between 1 and 255 minutes.

Add a memo if needed (P), and press the button START (Q).

The status should changed to: «MISSION PROGRAMMED» (F)

To Stop the mission, presse on the «S» button (S). Another window will appear to allow you to confirm the stop operation (R).

To download the mission, press on the «D» button (T).
Several messages will appear, always confirm the download until you can access the files downloaded in your «Download» folder of your phone.

Real Time Measurements

The «Fast Sampling Test» button H provides mesurements on all sensors in real time. To get updated measurements, refresh the page by pressing on the refresh icon I on your browser.

This page is useful to see all the sensors measurements and their relative position in the TrodX. The sensor with the highest number is the one found at the tip of the TrodX.

The firmware serial number is located on this page Ⓤ.

To return to the main menu, just press the «Menu» button Ⓥ.