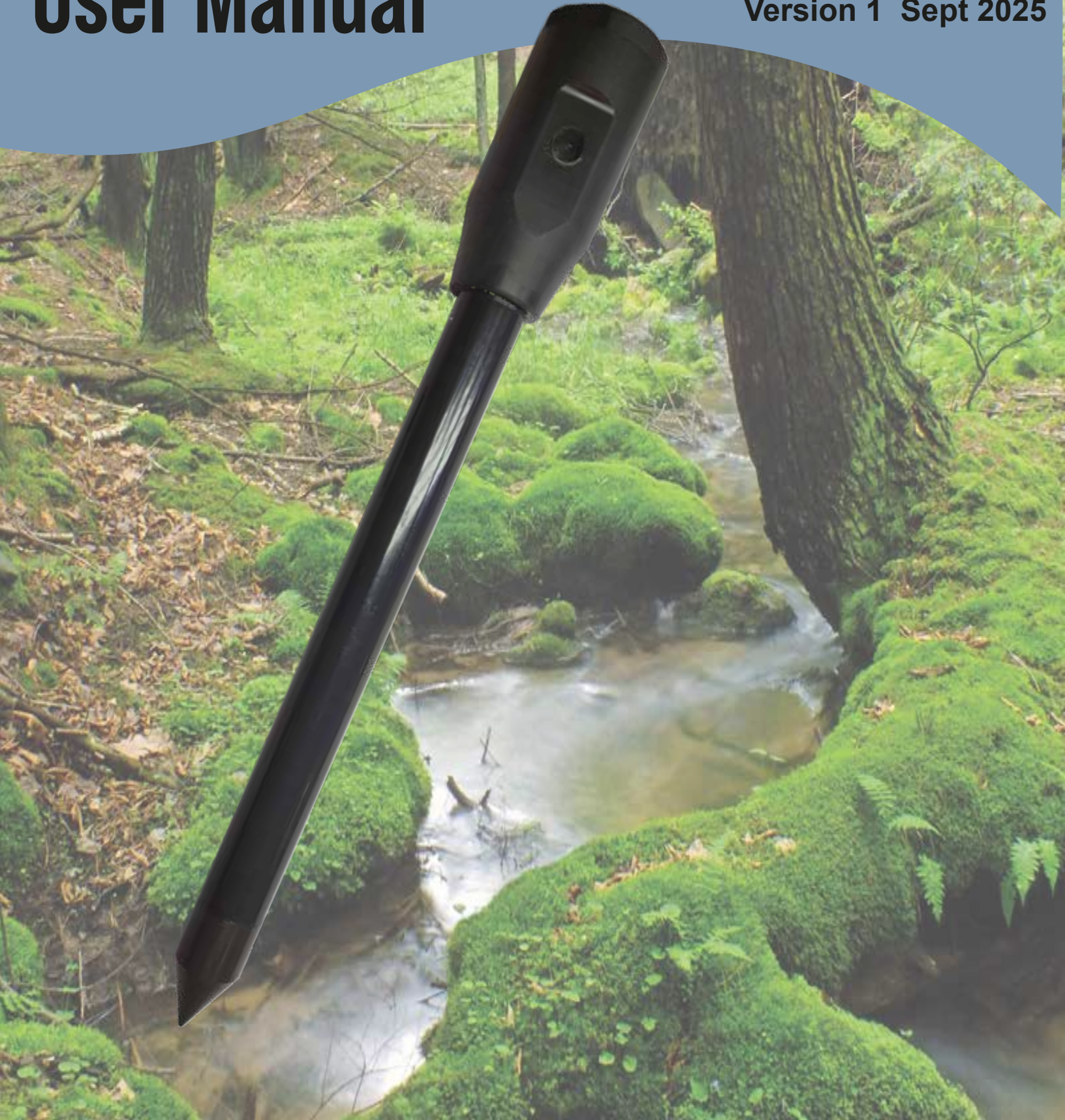


# TrodX

## Ground Temperature Profiling Probe

### User Manual

Version 1 Sept 2025



# Activating the TrodX

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## 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 green 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 serial 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)

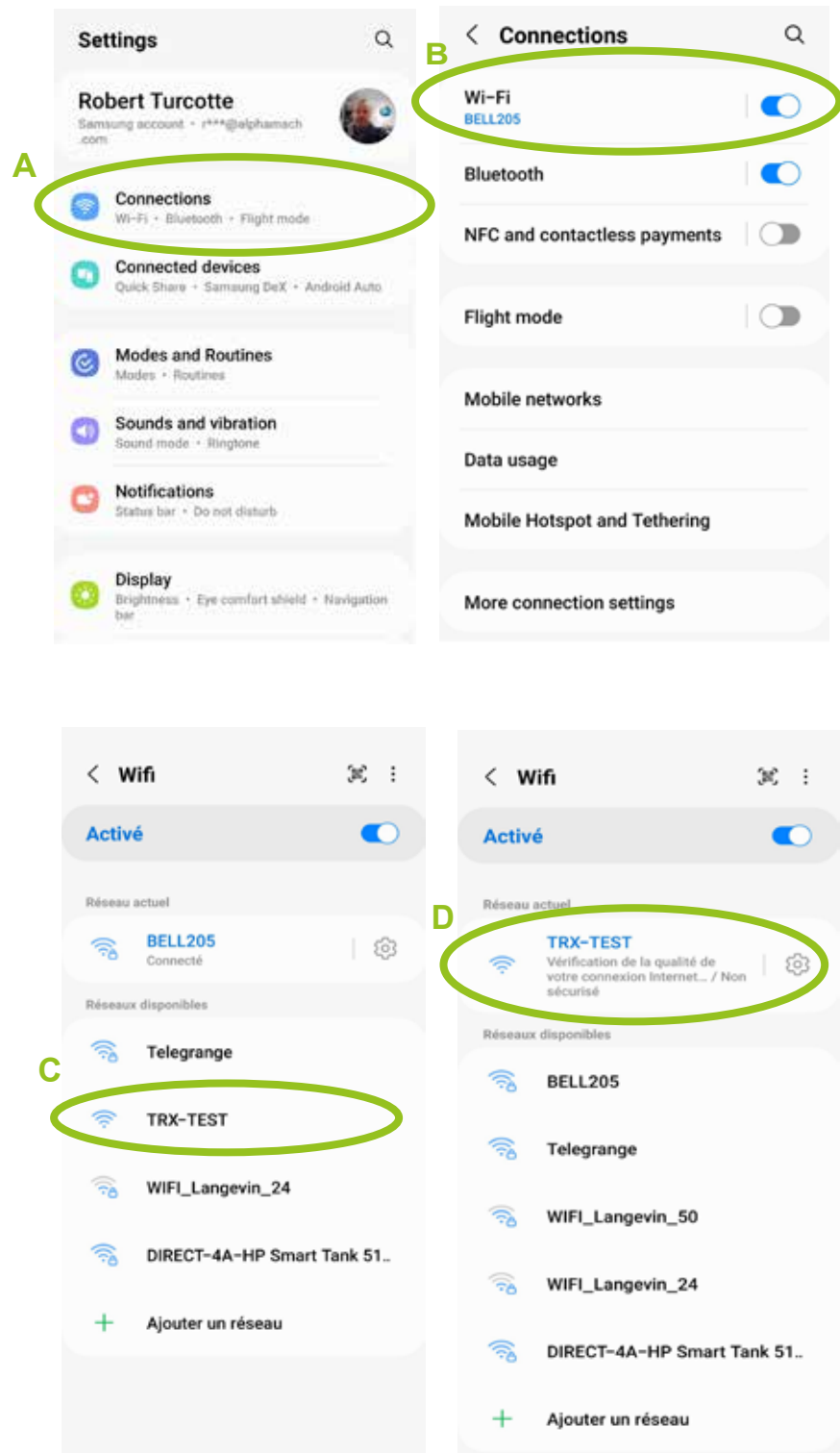
When the TrodX flashes its green LED, it provides an access point named by its serial number. Click on it to connect the phone WIFI to the TrodX

(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.

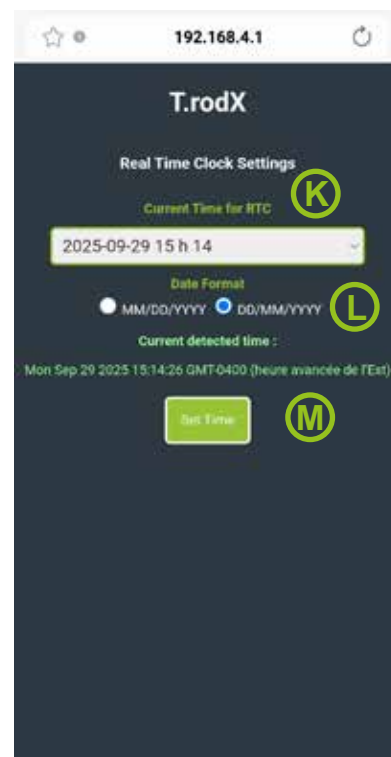
You will get a window with the TrodX serial number **E** and its status: **F**  
«STOP»  
«MISSION PROGRAMMED»  
«RUNNING»

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 measurementson 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 be changed to:  
«MISSION PROGRAMMED» (F)

To Stop the mission, press 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.

The screenshot shows the T.rodX TRX-TEST configuration interface. At the top, it says 'T.rodX TRX-TEST'. Below that is 'START TIME:' with a dropdown menu showing '2025-09-21' and a circled 'N' next to it. Underneath is 'Sampling Rate (minutes):' with a text input field containing '1' and a circled 'O' next to it. Below that is 'Memo (optional):' with a text area containing the word 'Test' and a circled 'P' next to it. At the bottom is a green 'START' button with a circled 'Q' next to it.

The screenshot shows a confirmation dialog for T.RodX. It asks 'Are you sure you want to end the mission?' with two buttons: 'End the mission' and 'Index Menu'. A circled 'R' is placed below the dialog.

The screenshot shows the TrodX Ground Temperature Monitoring screen. It displays 'TRX-TEST' and a box with 'MISSION PROGRAMMED', 'SAMPLING RATE: 1 MIN.', 'START: 15:17:00 29 SEP. 2025', and 'MEMORY USED: 0.04 %'. A circled 'F' is next to this box. Below is the time '15:15:22 29 SEP. 2025' and a message 'Wrong date/time? Click here.' with a circled 'J' next to it. At the bottom are three buttons: 'M' (green), 'S' (red), and 'D' (blue), with a circled 'T' next to the 'D' button. Below these is a green 'Fast Sampling Test' button.

# Real Time Measurements

The «Fast Sampling Test» button **H** provides measurements 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 **U**.

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

