



## Multi-Profile Logger Quick Start Guide

*For more detailed information please refer to the software manual or technical handbook.*

- Install the Multi-Profile software on your computer.
- Unscrew top cap and remove the red insulating washer from the positive battery terminal.
- Replace the terminal screw but do not over tighten.

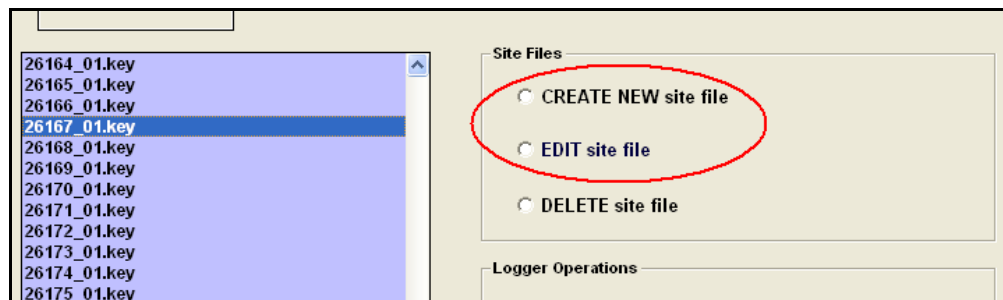
To ensure correct interpretation of the data recorded with your Odyssey logger, the software requires that you enter two sets of parameters. The 'Offset Values' and the 'Slope'.

### Setting the 'Offset' and 'Slope' values.

The offset values are supplied on a sheet for each sensor rod and are specific to each rod. Each rod must be paired up with a logger.

***Important:*** Match each logger and sensor rod up into pairs and keep them together. Write down the matched serial numbers for reference later.

- Start the Multi-Profile software.
- Create a new site file for your logger or edit an existing site file.



- On the next screen fill in the 'Site Details' pertaining to your logger.

The screenshot shows a window titled "Create New Site File" with a close button in the top right. Inside, there is a "Site Details" section with two columns: "Site Setup" and "Details".

Site Setup	Details
Site name	GLRL
Current data directory	GLRLDATA
Odyssey serial number	26167
GLRL site number	1
Root feeder zone (mm)	500

To the right of the "Details" column is a "Directory List" with a table containing one row: "GLRLDATA".

- Set the desired measurement type.

The screenshot shows a close-up of the "Measurement Type" dropdown menu. The menu is open, and "Percentage" is selected. A red oval highlights the "Measurement Type" label and the dropdown menu.

Below the dropdown, there is a "Site File Identification" section with two radio buttons: "Site Name" (unselected) and "Logger Serial Number" (selected). To the right, there is a "Remove this directory" button.

- At the bottom of the screen select the sensor depths that match the sensor rod that you paired up with the logger for this site. Default values will be set as follows:
  - If measuring soil moisture as a percentage the software will default to:
    - Slope = 120.
    - Field Cap = 100.
    - Refill = 60.
  - If measuring soil moisture as volumetric the software will default to:
    - Slope = 500.
    - Field Cap = 30.
    - Refill = 7.
- From the supplied offset sheet, enter the values for each sensor into the Offset column.

The screenshot shows a table titled "Profile Calibration Data". The table has seven columns: "Depth(cm)", "Offset", "Slope", "Field Cap", "Refill", "Soil Type", and "ON/OFF".

Depth(cm)	Offset	Slope	Field Cap	Refill	Soil Type	ON/OFF
20	9570	120	100	60		ON
40	9379	120	100	60		ON
60	9412	120	100	60		ON
80	9125	120	100	60		ON
						OFF

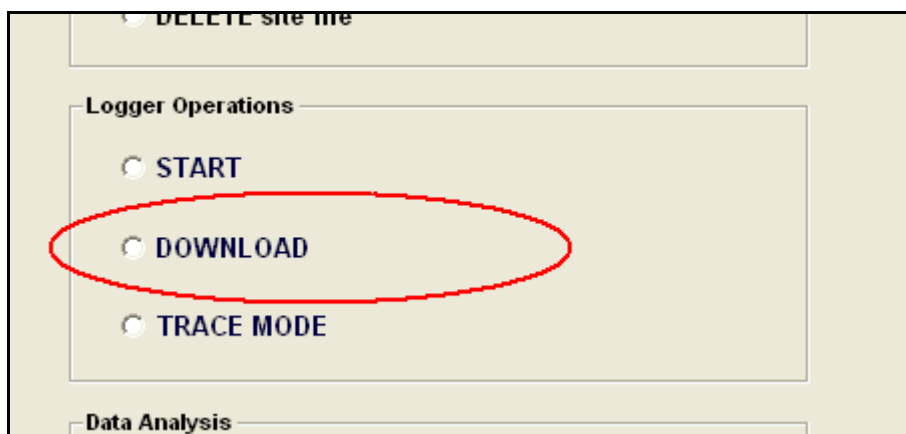
The "Offset" column is highlighted with a red box.

- Click 'OK' to save your settings.

You are now ready to calibrate your sensor and logger.

## Sensor and Logger Calibration.

- Set up an area of saturated soil around an access tube to simulate a 100% field capacity situation (*see handbook for more information*).
- Using the software, start your logger and insert it into the access tube. A short scan time will be desirable to record sufficient data. Leave the logger in place for an hour or two whilst maintaining the saturated soil.
- Once enough data has been recorded, download it to the computer.



- With the data downloaded you will be presented with a graph of the data otherwise you can view the data by selecting the 'Graph' option at a later time.



- At the top of the graph page adjust the slope value until each sensor reads approximately 100% for percentage measurements or the full volumetric value (default = 30) for volumetric measurements. Press the 'Enter' key to accept these new values. You can adjust each slope value separately by pressing the enter key in between adjustments if preferable.

Selected Depths in cm		Calibration Data				
<input checked="" type="checkbox"/> 50	<input type="checkbox"/> 90	Depth(cm)	Offset	Slope	Full	Refill
<input type="checkbox"/> 60	<input type="checkbox"/> 100	10	9998	114	100	60
<input type="checkbox"/> 70	<input type="checkbox"/> 110	20	9954	111	100	60
<input type="checkbox"/> 80	<input type="checkbox"/> 120	30	9987	114	100	60
		40	9856	116	100	60
		50	9854	118	100	60

GreenLight-RedLight Site '26198'							

- Your logger is now ready to use. The offset values and slope adjustments will be retained by the software.

*Thank you for supporting Odyssey products. Proudly made in New Zealand.*