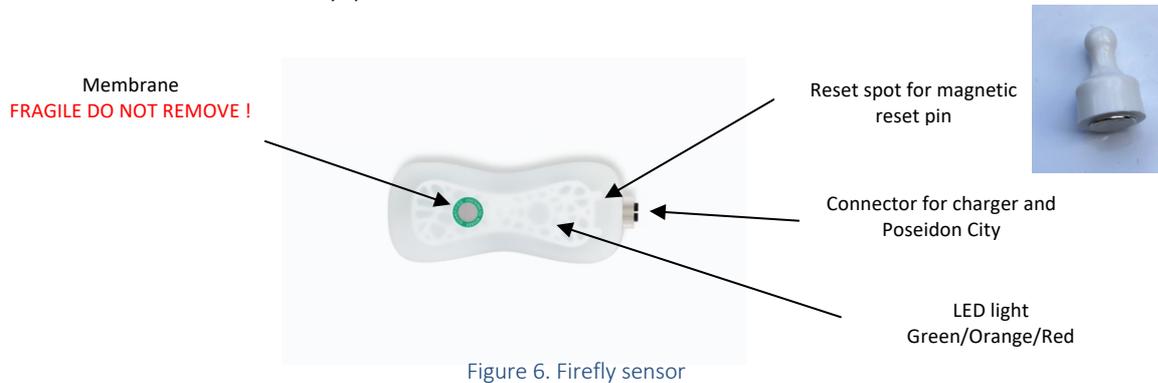


## Poseidon WET sensor outdoor installation

Congratulations with your purchase, thank you for choosing Quantified!

### 1 Connect to the Firefly platform sensor



Activate the Firefly by swiping the Quantified reset magnet over the indicated spot just above the connector. The LED-indicator will flash a red – orange – green sequence, once you see a returning single green LED-flash, Firefly is online!

### 2 Installing Poseidon City

The Poseidon City connects to the Firefly and consist of a waterproof housing to be placed underground. Before getting started record the unique Firefly sensor number (inside the housing) starting with FF... to match the sensor readings on the (Insight) data-platform with the sensor location.

For accurate soil moisture measurements these items are important:

- Poseidon pins should be inserted in untouched soil for a representative measurement
- After installation the pins should not move (touching, wind, etc..) this will influence the measurement.
- The installation should not influence the natural flow of (rain/irrigation) water into the soil



Step 1. Connect the firefly and reset with the magnet (record the sensor number to match the measurements later on)



Step 2. Dig a hole to the desired measuring depth.



*Step 2. Push the Poseidon pins firmly in the side wall*



*Step 3. Refill the hole to the level where the Poseidon City housing is +/- 2 cm under the top surface.*



*Step 4 & 5. Replace the soil and compress to original soil compaction till the surface is even. DO NOT cover Poseidon City with more than 2,5cm of dirt/stone/wood/etc...*

### 3 Parameters and readings in Insight

The Poseidon WET sensor produces 3 readings:

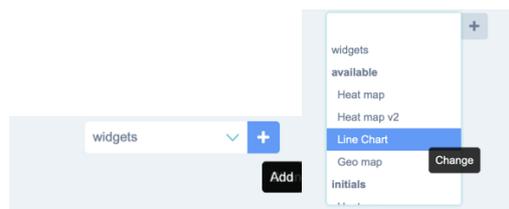
- Soil Permittivity: a measure for moisture but depending on soil / substrate characteristics.  
In the Insight platform you will find settings to translate the permittivity to moisture for standard soil types.  
In case you would want to convert the permittivity to your specific soil/substrate type you must do a calibration for that specific type.
- EC: Electro conductivity, an indication for mineral content in the soil.
- Soil temperature

### 4 Connecting to “Insight”

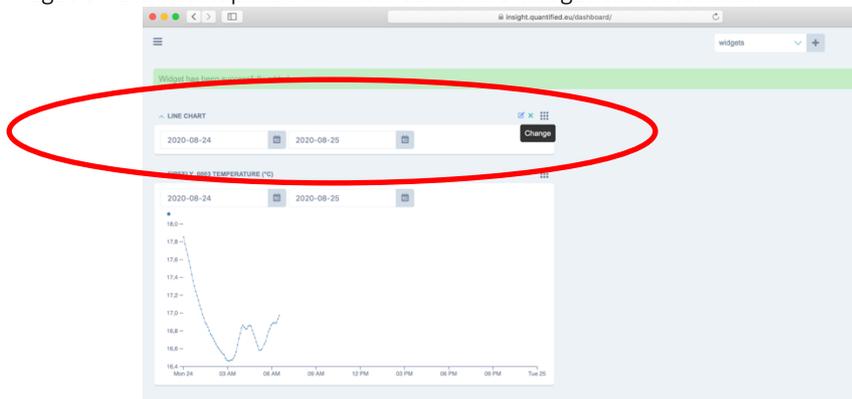
To get all the functionalities working the use of either [Google Chrome](#) or [Firefox](#) is needed. WARNING: Insight will not work correctly using other browsers like Internet Explorer or Safari. Go to [www.quantified.eu](http://www.quantified.eu) and use the “Log in” button in the right top corner of the website to connect to Insight.

#### 4.1 Dashboard screen and managing Widgets

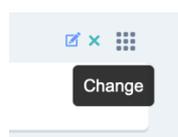
After logging in you will find yourself on the dashboard page which you can customize according to your needs with multiple widgets. To Add a Widget select a Widget type from the dropdown and click on +.



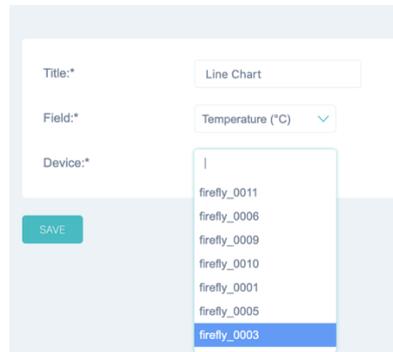
This will add a Widget on the desktop. You can now define the Widget characteristics.



To define a Widget, select the change Widget Icon on the top right of the Widget.



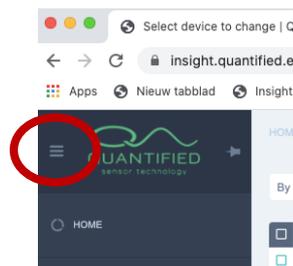
Select the device from the list and choose the Field type. Next click on the SAVE button.



You can **re-position the widget** by clicking and dragging the Widget on its  Icon.

#### 4.2 Device screen

By clicking on the hamburger symbol in the top left of your screen, you can open the menu screen where you will find the Devices Menu item. You can toggle the menu by clicking on the hamburger symbol.



Clicking on the Devices menu will show a screen with all available devices. From this screen you can download device data or see the data of each individual device by clicking on the device name.

#### 4.3 Downloads

Clicking on the Download device data button will show a pop-up where you can enter data range and export type of data. After clicking Download the data will be collected from the server and can be opened in Excel by clicking on the excel link in your browser. **ATTENTION: The download size is limited as indicated in the download screen.**