



Soil moisture sensor installation

User manual

v1.0

02.08.2022

Before installation - sensor hydration

The WATERMARK soil moisture probe (model 200ss) is filled with air. In order for the probe to measure correctly, it must be prepared by replacing the air into water. **Do not install dry probes!** The probe preparation procedure is time-consuming and necessary for the correct performance of the measurement, therefore it must be carefully followed.. Just one watering cycle of the probe will allow the device to work properly. Always install a thoroughly soaked probe at the target location. To do this, follow the instructions below:

1. Wet the probe by submerging **less than halfway for 30 minutes**



2. Let it dry (this may take 8-10 hours),
3. Then again submerge the probe into the water **less than halfway for 30 minutes,**
4. Let it dry (this may take 8-10 hours),
5. Wet the probe for the third time by submerging **less than halfway for 30 minutes,**
6. Let it dry (this may take 8-10 hours),
7. **Immerse the probe completely for 8 hours** (flying air bubbles may be noticeable),



8. Finally, install a thoroughly soaked probe at its final location. To do it correctly, please see the next chapter "Installation".

Installation

WARNING! Probes cables (both soil moisture and temperature) should be placed inside a PVC pipe with an internal diameter not less than 23 mm. If the cables are placed directly in the soil, they can be damaged by rodents.



Dig a hole for the soil moisture sensor and mix a dug soil with water to the consistency of honey. The bottom of the dug hole should be poured with prepared slurry. The probe should be placed at the bottom of the hole, so that the soil moisture probe has direct contact with the soil. The rest of the mixed mud should be used to fill the spaces in the hole once the probes have been placed

