

Probe Installation

Notes should be taken as to which serial numbers are located in which fields as well as approx. GPS coordinates for use in software setup.

Drilling

Use the installation auger (below) to bore a hole in the desired location. Probe should be located in the row between two plants, and at least a few rows into the field. Placement in the outer row of the field can create data bias due to sunlight drying/heating the soil in a manner not representative of the field as a whole. Great care must be taken to be sure the bored hole is as vertical as possible.



Slurry

Once hole is bored to correct depth a slurry mixture should be made to pour into the hole. Slurry should be made of finely screened soil and water. Mix the soil and water together until the mixture resembles the consistency of a milkshake. Once slurry is of the right consistency, pour the mixture into the bored hole.

Installation

After pouring the slurry mixture into the bored hole you can insert the probe. Probe should be inserted until only the top cap is visible above the surface in the case of Classic and Wireless models, subsurface models should be inserted until the top is approx. 1-2" below the surface. While inserting the probe some slurry mixture should be forced out the top. (shown below) **DO NOT CLEAN AWAY THE SLURRY MIXTURE.** This top "slurry cap" (shown with arrow) helps to ensure the tight fit and prevents moisture from running down the probe and giving false readings.



Wiring

Once the probe has been inserted remove the travel cap and replace with the wired cap supplied. Be sure to place 1-2 silica packets inside the wired cap and connect the wire to the circuit board.

Place the wired cap

onto the probe so the protruding snaps on the probe fit into the holes on the cap. Finally, place the dust cover (taller cap with "Aquacheck" formed into it) over the whole assembly.

Once the RTU is mounted, connect the weather pack connector from the probe to its associated end on the RTU. Do the same with any other sensors you may have ordered.

Mounting RTU

Mounting the RTU can be done a number of ways depending on the configuration ordered.

General rules of thumb are:

In the northern hemisphere mount the RTU north of the probe whenever possible, and face solar panel to the south.

In the southern hemisphere mount the RTU south of the probe with solar panel facing north.

In all cases the RTU should be mounted securely to the bracket (for those needing brackets) and then mounted securely to a post pounded well into the ground.

Rain gauges should be mounted in an area so the rainfall is not disrupted, (above the crop canopy, in a fence row, on the ground with area crops knocked down, etc.)