

Hydroponics pH, EC & Temperature Transmitter



Operation & Installation Manual

⚠ IMPORTANT

Disconnect power and read installation and operation instructions before installing or operating.

Installation Instructions

1. Mounting the transmitter box

The hydro transmitter connects pH, conductivity and water temperature probes to the GrowControl™ controller. The transmitter should be located near the hydroponics reservoir. Mount to a wall in a location where there is adequate air movement and where the transmitter will not get water in its cooling slots.

2. Connecting the sensors

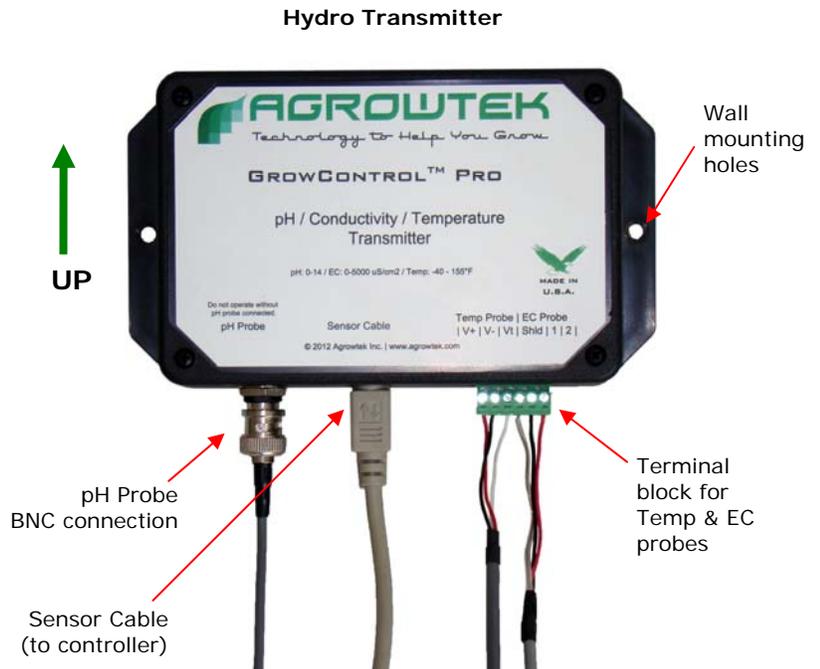
Gently push the pH probe's connector onto the BNC connector and twist clockwise to lock into place. Connect the probes to the removable terminal block as shown.

3. Connect the transmitter to the controller

Using the supplied sensor cable, connect one end to the transmitter and the other end to the desired sensor port.

4. Mapping & Calibrating

The transmitter and probes are not factory calibrated and may not be factory mapped to the connected sensor port. See controller manual for mapping and calibration instructions.



⚠ NOTE

Mount the transmitter upright on a vertical surface for proper ventilation.

⚠ IMPORTANT

pH probes must remain wet at all times. A dry probe may be damaged and unstable.
Take precautions to ensure probes remain submerged.

NOTICE

Probes and transmitters require calibration before use.
Follow instructions in controller manual for proper calibration procedures.

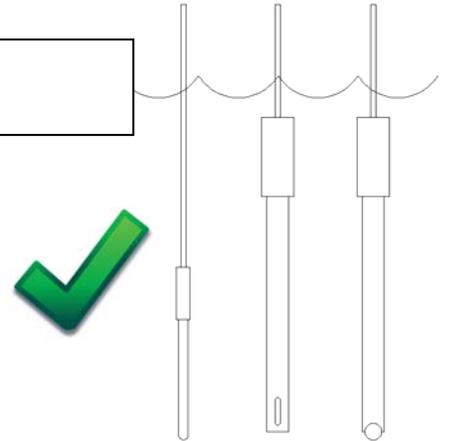
NOTE

The pH, EC and Temperature probes can all be fully submerged in water.

The pH, EC and Temperature probes can all be installed directly into the hydroponics reservoir, a sample pot, or into a gland fitting for installation into a pipe tee. It is important that the location of the probes ensures they remain immersed at all times.

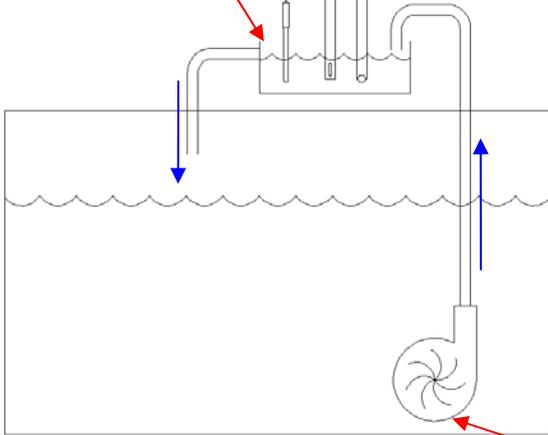
Placing the probes directly into the tank or a sample pot allows for easy access to the probes for calibration, while installation into a tee fitting will offer longer service intervals by keeping the probes cleaner due to the flow over the probe tips.

Gland fittings are available for water-tight connections into NPT pipe fittings.



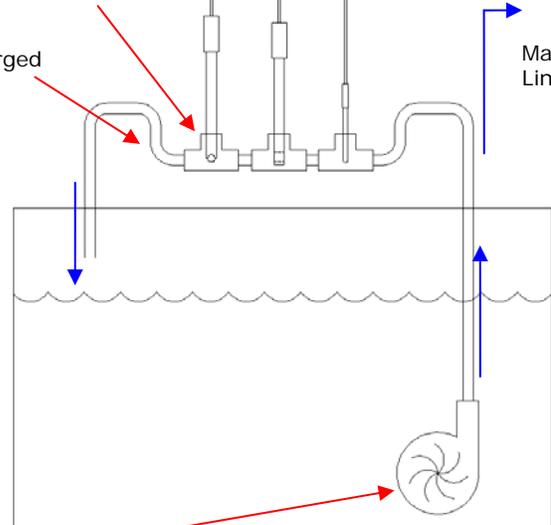
Alternate Probe Configurations

Sample Pot keeps sensors submerged with easy access



Tee's with gland fittings

'U-Trap' keeps sensors submerged



Sample/Mixing Pump

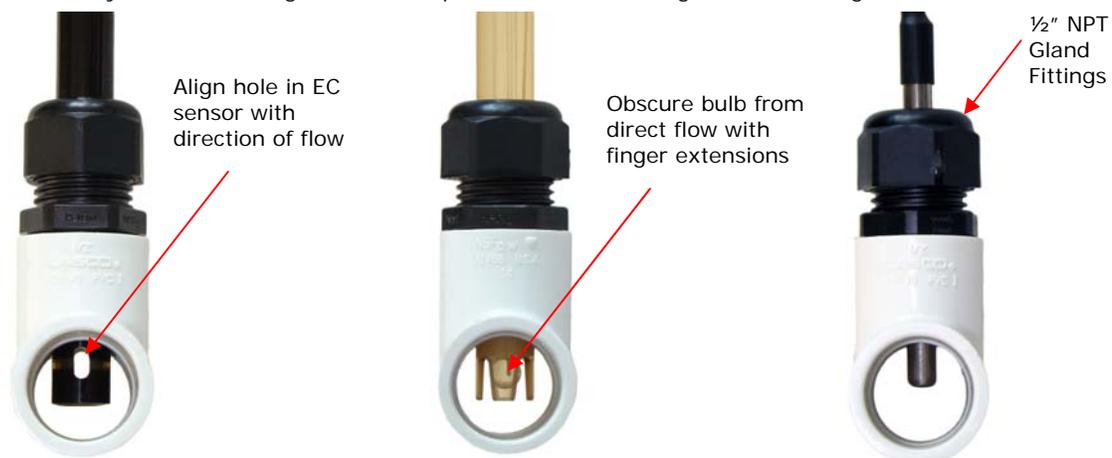
NOTE

A sampling/mixing pump, if used, should be operated continuously any time the dosing is enabled to ensure proper readings and dosing.

Probe Glands

Recommended gland installation configuration.

Note: It may be necessary to mark the alignment of the probes before inserting them into the glands.



Warranty:

Agrowtek Inc. warrants that all manufactured products are, to the best of its knowledge, free of defective material and workmanship and warrants the **transmitter electronics, conductivity probe and temperature probe for 1 year** from the date of purchase and **pH probe for 30 days** from the date of purchase. This warranty is extended to the original purchaser from the date of receipt. This warranty does not cover damages from abuse, accidental breakage, or units that have been modified, altered, or installed in a manner other than that which is specified in the installation instructions. Agrowtek Inc. must be contacted prior to return shipment for a return authorization. No returns will be accepted without a return authorization. This warranty is applicable only to products that have been properly stored, installed, and maintained per the installation and operation manual and used for their intended purpose. This limited warranty does not cover products installed in or operated under unusual conditions or environments including, but not limited to, high humidity or high temperature conditions. The products which have been claimed and comply with the aforementioned restrictions shall be replaced or repaired at the sole discretion of the Agrowtek Inc. at no charge. This warranty is provided in lieu of all other warranty provisions, express or implied. It is including but not limited to any implied warranty of fitness or merchantability for a particular purpose and is limited to the Warranty Period. In no event or circumstance shall Agrowtek Inc. be liable to any third party or the claimant for damages in excess of the price paid for the product, or for any loss of use, inconvenience, commercial loss, loss of time, lost profits or savings or any other incidental, consequential or special damages arising out of the use of, or inability to use, the product. This disclaimer is made to the fullest extent allowed by law or regulation and is specifically made to specify that the liability of Agrowtek Inc. under this limited warranty, or any claimed extension thereof, shall be to replace or repair the Product or refund the price paid for the Product.