



WeatherTRAK[®] User Guide

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Installation Guide

Before You Start:

Equipment and Power Requirements:

INDOORS You need to have the *WeatherTRAK* controller and manual. There must be a power outlet within 6-8 feet of where the *WeatherTRAK* will be installed. If the valve wires are 16 gauge or heavier, you will need some 18-22 gauge solid valve extension wire (we recommend 20 gauge) and some wire nuts.

OUTDOORS You need to have the *WeatherTRAK* controller, an outdoor box (from HydroPoint Data Systems, Inc.) and manual. There should be a junction box with 110VAC available near the proposed *WeatherTRAK* installation. You'll need to bring power to the receptacle inside the outdoor box. Make sure you have some conduit and adapters available. You will need some 18-22 gauge solid valve extension wire (we recommend 20 gauge) and some wire nuts.

Installation:

Before you start, turn off the circuit breaker that powers the existing controller!!!

Labeling:

Make sure you know which station belongs to which wire before disconnecting the irrigation valve wires from the existing controller. Label or mark the wires accordingly. Also, make sure you identify the common wires and label them.

Removing the Existing Controller:

Unplug the power supply. If there is an internal transformer on the controller's box, or the existing box is wired in, find the circuit breaker and turn it off. Then proceed to undo the existing wiring.

Mounting the *WeatherTRAK*:

INDOORS Make sure the new *WeatherTRAK* controller is at eye level for the expected operator and mount to the wall. If the valve wires do not reach, or the wires are 16 gauge or heavier, you may need to install a condolet box to bring

extension wires into the *WeatherTRAK*. Use 18 to 22 solid gauge valve wires so that they can fit inside the controller and connect the wires with wire nuts.

Insert the previously labeled valve wires into the *WeatherTRAK*'s connector strip securing each wire tip with a small straight blade screwdriver. There should be one or two common wires "C"; if a Rain Switch is being installed, wire in at "RS." **DO NOT REMOVE THE JUMPER AT THE "RS" POSITIONS UNLESS YOU INSTALL A RAIN SWITCH, OTHERWISE THE CONTROLLER WILL NOT IRRIGATE PROPERLY!!!** (If your location uses a Master Valve or Pump, see the **Master Valve** section below.) When you replace the *WeatherTRAK* cover, be sure the **COPY** button moves freely and is not caught by the cover.

Plug the transformer in the power outlet and plug into the *WeatherTRAK*. Turn the circuit breaker back on, verify all the valve wires are correctly installed, and then continue to **SETUP**.

OUTDOORS Make sure the new outdoor box is at eye level for the expected operator and that there is clearance for the antenna sleeve. Mount the outdoor box to the wall using the appropriate anchors and screws. Use 18 to 22 solid gauge valve wires so that they can fit inside the controller, connect the wires with wire nuts, and conceal all connections behind the plate that holds the *WeatherTRAK* inside the outdoor box.

Insert the previously labeled valve wires into the *WeatherTRAK*'s connector strip securing each wire tip with a small straight blade screwdriver. There should be one or two common wires "C"; if a Rain Switch is being installed, wire in at "RS." **DO NOT REMOVE THE JUMPER AT THE "RS" POSITIONS UNLESS YOU INSTALL A RAIN SWITCH, OTHERWISE THE CONTROLLER WILL NOT IRRIGATE PROPERLY!!!** (If your location uses a Master Valve or Pump, see the **Master Valve** section below.) When you replace the *WeatherTRAK* cover, be sure the **COPY** button moves freely and is not caught by the cover.

The outdoor box requires direct connection to AC power. Make sure you connect the "ground" wire too. Use conventional conduit or flex conduit from the nearest junction box to the outdoor box. Plug the transformer into the outlet provided in the outdoor box, plug in the *WeatherTRAK*, bundle the excess cord and conceal behind the plate that holds the *WeatherTRAK* inside the outdoor box.

Turn the circuit breaker back on, verify all the valve wires are correctly installed, and then continue to **SETUP**.

MASTER VALVE

For a 12-station *WeatherTRAK*:

- Hook up the Master Valve/Pump as Station 12
- In **SETUP**, set "**MAX ACTIVE STATIONS**" to 11 or less
- Station 12 becomes the Master Valve or Pump and turns on with every valve.

Description of the Front Panel

The *WeatherTRAK* has three knobs, a COPY button and a two-line display.



The underlying concept for the use of the *WeatherTRAK* controller is to visualize a series of lists that need to be filled out with information. What is seen in the display will change according to which list is being viewed. The Upper Line of the display identifies the information needed. The Lower Line of the display shows one of a selection of available responses. Three knobs are used to control the display.



Knob #1, the “FUNCTION SELECTOR,” will select which particular list is being viewed. Turn the knob in either direction. When you are done, don’t worry about the knob position; the controller will irrigate in any position other than **OFF**.



Knob #2 is the “**UPPER LINE**” control. Turning the knob left or right one click selects which item in the list to change. One full turn of the knob clicks through 16 items. There may be more than 16 possible items, so just keep turning. If you go past the desired item, turn the knob the other way. At the end of a list of items, further turning of the knob does nothing...it doesn’t rotate around to the other end of the list.



Knob #3 is the “**LOWER LINE**” control. One full turn of the knob clicks through 16 responses. There may be more than 16 possible responses, so just keep turning. If you go past the desired response, turn the knob the other way. At the end of a list of responses, further turning of the knob does nothing...it doesn’t rotate around to the other end of the responses.

Each Function (or list) has a series of entries that can be made. Each click of Knob #2 results in a description of what information is required. Rotate Knob #3 until you see the desired response. There is no ENTER key on the *WeatherTRAK*. When the user changes any settings with either knob 2 or 3, what is shown in the display is what is stored in the unit. This process is repeated until all the steps for the particular Function have been completed.



The **COPY** button on the controller is used to copy information that has been set about one station to another station. This minimizes the number of entries required to program your *WeatherTRAK* controller. See the **COPY** section of the *User’s Guide*.

Each of the possible **FUNCTIONS** (Lists) are shown below with a brief description.

- **RUN:** Normal operating position; displays time and date and which valves are presently on—either manually or automatically.
- **SETUP:** Sets up common controller functions such as time and date.
- **PROGRAM:** Sets up individual controller station settings such as sprinkler type and plant type.
- **COPY:** Allows the user to copy one station's settings to another station, or one station's settings to all other stations.
- **REVIEW:** Displays station irrigation time, number of cycles and operating days.
- **ADJUST:** "Tweaks" station run times that are in the Fully Automated mode in 5% steps.
- **RAIN PAUSE:** Allows controller to be shut down for a specific number of days, after which it automatically resumes normal operating mode.
- **OFF:** Stops all irrigation. Messages are still received and schedule will be recalculated.
- **HELP:** Provides toll free phone number to get help with your *WeatherTRAK* controller.
- **DIAGNOSTICS:** Displays important information about your controller.
- **DISPLAY ADJUST:** Allows the user to change the contrast of the display.
- **MANUAL:** Allows manual operation of one or all stations for a specific period of time.

Below is an example of the display when Knob 1 is turned to **SETUP**:

SET IRRIG START (HOUR)
11: 00 PM

← *Upper Line*

← *Lower Line*

The Upper Line of the display indicates that the current operation is to set the Hour for the Irrigation Start Time. The Lower Line of the display shows what the current setting is; the user can change this as desired.

FCC Information

The equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance can void the user's authority to operate the equipment.