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* This downloadable .pdf has been resized from its original booklet. For ease of printing, pages intentionally left blank, including pages 26 and 30, have been removed.
WHAT IS A HERMITCRAB® CONTROLLER?
The HermitCrab is an innovative device that converts a conventional (host) irrigation controller into a “smart irrigation controller.” It combines web-based technology with horticultural science to optimize your irrigation schedules and enable remote management of watering needs.

**How It Works**

1. Customer enters the landscape profile online.
2. Local weather station captures weather and rainfall data.
3. The ET water server computes ideal watering schedule.
4. HermitCrab communicates wirelessly with the ET Water server to receive schedule and report field activity.
5. Acting as a “Smart Remote,” HermitCrab takes control of the Host Controller, and instructs the controller to open and close sprinkler valves as necessary.

The watering schedule is based on the science of evapotranspiration, or “ET,” the most widely accepted scientific method for determining plant water requirements. ET is the combined rate at which water is lost through soil evaporation.
and used by plants through transpiration. ET is calculated using real-time weather data from a network of more than 9,000 private and professional, highly reliable local stations that are monitored 24 hours a day, seven days a week.

The watering schedule is customized for your landscape based on profile information you provide using our convenient, web-based interface to select irrigation type, plant and soil type, slope, and sun exposure. The ET water server combines this site information with daily local temperature and rainfall data to create a custom irrigation schedule that will maintain a healthy landscape.

Once the HermitCrab Controller is connected to your existing, conventional (host) controller, it will make a daily, wireless connection to the ET Water server to retrieve the weather-adjusted irrigation schedule for each of the watering stations in your landscape. Then, using this schedule, the HermitCrab Controller will signal the host controller to open and close irrigation valves as necessary.

In addition to water conservation and runoff reduction, remote management of the installation with a computer or smart phone reduces labor costs. A typical HermitCrab Controller installation has a payback of less than one year. When connected to HermitCrab Controllers, various controller brands at multiple sites can be efficiently managed from a single online account -- using the award-winning ETWater Manager application.

For more information on the science of ET irrigation and how each of your schedules is generated, please visit our website at: www.etwater.com/public/irrigation-science.html

BENEFITS:
• Water savings from upgrading to ET Water’s web-based irrigation control.
• Lowest Cost: Retrofitting an existing conventional controller with a HermitCrab Controller costs much less than purchasing and installing a new smart controller.
• Fast payback means customers can upgrade to smart control today, rather than waiting for existing controllers to reach end-of-life.
• Labor saving convenience of remote monitoring and management via the web.
• Plug-and-play installation in less than 10 minutes. No valve rewiring or power connection required.
Landscape Profile Checklist

To simplify the creation of a landscape profile for the HermitCrab Controller, ET Water Systems recommends all customers perform a landscape audit before installing and programming a new controller. Below is an ET Water System landscape audit form. Fill out the form and keep this user guide by your computer for easy access. We also recommend you make a copy of the completed landscape profile and leave it at the controller.

Use this form to record your current station configurations (irrigation method, plant type, slope, soil, sun exposure, etc.) At the bottom, also record the current watering schedule for each station. For example, Station #1 may now water twice a week (2 sessions) for one hour each, for a total watering time of 2 hours per week. This information will help you configure your stations on our website, and also allow you to compare your current watering schedule and usage with your new ET Water schedule.

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**Irrigation Method**
- Spray Head
- Rotor
- Impact
- Stream
- Drip
- Bubbler
- Precipitation: inches or gallons per hour
- Distribution Uniformity (Percent)
- Root Depth (Inches)

**Plant Type**
- Cool Season Grass
- Warm Season Grass
- Flowers/Bedding Plants
- Shrubs (Native)
- Shrubs (Non-native)
- Groundcover/Vines
- Trees (Native)
- Trees (Non-native)
- Ornamental Grasses
- Vegetables/Herbs
- Cactus/Succulents

**Slope**
- Flat/Negligible (0-5%)
- Gentle (6-8%)
- Medium (9 to 12%)
- Steep (13-20%)
- Very Steep (over 20%)

**Soil**
- Sandy (porous)
- Sandy Loam
- Loam (medium)
- Loamy Clay
- Clay (dense)

**Sun Exposure**
- Sunny all day
- Shady part of the day
- Shady all day

**Current Watering Schedule**
- Sessions per week
- Minutes per session
- Total minutes per week
- New schedule: approx. minutes per week

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*Plant types:* Please note the approximate age of your plants and whether they are deciduous or evergreen. Also, for plants over one year old, our system will assume they have the normal mature root depth for the type of plant indicated. If you believe your plants have not achieved their normal root depth, you may change this value using the Advanced Setup page or Edit Station feature on the website.
SOME THINGS TO CONSIDER BEFORE INSTALLING + CONNECTING YOUR HERMITCRAB CONTROLLER

• Do you have the correct communications cable?
  Each host controller requires its own specially designed cable. Cables can be purchased separately.

• Is there sufficient mounting space?
  The communications cable that connects your HermitCrab Controller to the host controller is 3 feet long. You will need to mount or hang your HermitCrab Controller so the communications cable can easily reach from the HermitCrab Controller to the connection point(s) on your host controller.

• Is your host controller mounted in an enclosure or pedestal?
  If your host controller is inside a pedestal or other enclosure you may decide to mount your HermitCrab Controller inside the enclosure. Please note, however, that the wireless cellular signal strength inside the enclosure may be too low to ensure consistent and reliable communication. You may need to purchase a separate external antenna.

• Will you need extra conduit?
  If you use conduit to protect your cables from vandalism, it must have a ¾ inch or larger inside diameter to accept the connectors on each end of the communications cable. You may also need a junction box and any related conduit/box connectors.

• Do you have a rain sensor?
  If you use a rain sensor, you may need some 18 or 20 gauge wire to extend your rain sensor’s existing wires so they reach the HermitCrab controller.

• Do you want to lock the HermitCrab Controller cover?
  Find the round plastic link above the lower clasp. You can slide a thin padlock hasp through the link to lock the cover.
HermitCrab Controller Installation Instructions

PRE-INSTALL REQUIREMENTS

• The HermitCrab uses a cellular signal to connect to the ET Water Systems server for program updates. The area where the HermitCrab is installed must have a strong cellular signal.

• Required Tools (drill and spare battery, bits (including masonry or stainless steel), Phillips screwdriver, crescent wrench, voltmeter, extra wire (for wireless rain sensor installations).

• HermitCrab Mounting hardware.

• Activate each zone on original controller to ensure all zones work, in process also fill out landscape checklist. Or, skip the landscape checklist and configure the stations via Smart phone, laptop or tablet.

Step 1: Install Your HermitCrab Controller

1. HermitCrab controller needs to be installed no more than two feet away from the host controller to insure that the HermitCrab communications cable can reach both controllers.

2. Attach the mounting brackets (included with the HermitCrab Controller) to the bottom corners of the plastic enclosure.

NOTE: For anchoring to a pedestal, use self-tapping metal screws. For stainless steel enclosures, drill a pilot hole, and then use a tapered bit to increase the size of the hole.
3. Position the HermitCrab controller on the mounting surface and anchor it using the included screws.

**Step 2: Connect the Communications Cable to your HermitCrab Controller**

Plug the communications cable into the 9-pin connector located at the base of your HermitCrab controller, with the ▲ symbol on the plug facing up. Program the Host Controller and attach the HermitCrab controller communications cable to the Host Controller by following the directions on the following page.
Rain Bird® STPi and SST Series (5 Pin)

PREPARING YOUR RAIN BIRD CONTROLLER:
1. Turn the selector knob on your Rain Bird controller to select station “1” and press the “ZONE OFF” button. Repeat for all stations in use.
2. Turn the selector knob to “AUTO.”
3. Power off the controller.

ATTACHING THE HERMITCRAB COMMUNICATIONS CABLE:
1. Remove the factory two-pronged 24VAC connector from its connection on the Rain Bird.
2. Attach the separate black wire on the HermitCrab communications cable to the 24 VAC connector on the left side of the host controller.
3. Plug the HermitCrab controller 5 Pin communications cable into the accessory plug on the right side of the host controller.
4. Reconnect the factory 24VAC connector.
PREPARING YOUR RAIN BIRD CONTROLLER:
1. Turn the selector knob to “OFF.”
2. Power off the controller.

ATTACHING THE HERMITCRAB COMMUNICATIONS CABLE:
1. Connect the 6 Pin plug on the communications cable to the “remote” connector on the back of the host controller’s front panel.
2. Connect the red and black wires to the AC power output terminals. Either wire can connect to either terminal.
Rain Bird® LX Modular (6 Pin)

PREPARING YOUR RAIN BIRD CONTROLLER:
1. Leave the knob in the “OFF” position.
3. Power off the controller.

ATTACHING THE HERMITCRAB COMMUNICATIONS CABLE:
1. Connect the 6 Pin plug on the communications cable to the “REMOTE” connector on the right side of the transformer.
2. Connect the red and black wires to the terminal labeled “24 VAC.” Either wire can connect to either terminal.
Rain Bird® LX Plus (6 Pin)

PREPARING YOUR RAIN BIRD CONTROLLER:
1. Leave the knob in the “OFF” position.
3. Power off the controller.

ATTACHING THE HERMITCRAB COMMUNICATIONS CABLE:
1. Connect the 6 Pin plug on the communications cable to the “REMOTE” connector on the right side of the transformer.
2. Connect the red and black wires to the terminal labeled “24 VAC.” Either wire can connect to either terminal.
Irritrol® MC Plus B

PREPARING YOUR MC PLUS B CONTROLLER:
1. Set the controller to the “Rain Off” position.
2. Power off the controller.

ATTACHING THE HERMITCRAB COMMUNICATIONS CABLE:
1. Remove the two screws securing the front panel in the controller.
2. Carefully remove the front panel and locate the 6-pin connector located on the back of the front panel, next to the display.
3. Connect the plug on the communications cable to this 6-pin connector.
Irritrol® MC-E Original and 2011 Versions

PREPARING YOUR Irritrol MC-E ORIGINAL CONTROLLER:
1. Set the controller to the “Rain Off” position.
2. Power off the controller.

ATTACHING THE HERMITCRAB COMMUNICATIONS CABLE:
1. Connect the HermitCrab communications cable to the 6-pin connector located at the bottom right corner of the controller’s upper panel.
PREPARING YOUR IRRITROL MC-E 2011 CONTROLLER:
The newer MC-E Irritrol defaults to an “Eicon Remote” setting. The HermitCrab controller requires the setting to be changed to “T.R.C Remote”. To do this, follow the steps below:

1. Turn the knob of the Irritrol to the “Options” selection.
2. Press the “next” button to scroll to option #4 which will say “Retrolink Remote”. Press the button labeled “+” to change the selection to T.R.C Remote.
3. Turn the Irritrol dial to “Sentinel/Eicon Remote”. The Irritrol will show a brief countdown and then display “T.R.C Remote Start Receiving”.
4. Power off the controller.

ATTACHING THE HERMITCRAB COMMUNICATIONS CABLE:

1. Connect the HermitCrab communications cable to the 6-pin connector located at the bottom right corner of the controller’s upper panel.
**Hunter® SRC, I-Core, Pro-C, ICC, and ACC***

**PREPARING YOUR HUNTER CONTROLLER:**
1. Set the controller to the “System Off” position.
2. Power off the controller.

**ATTACHING THE HERMITCRAB COMMUNICATIONS CABLE:**
1. Connect the three loose wires as follows:
   a) Connect the Green or Brown wire to the terminal labeled “REM” or “R”.
   b) Connect the Black or White wire to the terminal labeled “AC2.”
   c) Connect the Red wire to the terminal labeled “AC1.”

* The Hunter ACC requires custom installation with an ET Water engineer. Please call customer support for installation assistance.

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**Hunter® SRC**

![Diagram of Hunter® SRC connections with labels: Red wire, Black or white wire, Green or brown wire.]

**Hunter® I-Core**

![Diagram of Hunter® I-Core connections with labels: Red wire, Black or white wire, Green or brown wire.]

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* Hunter® SRC, I-Core, Pro-C, ICC, and ACC*
Rain Master ® Sentar™, Eagle, Hawk, and Evolution™ DX2

PREPARING YOUR RAIN MASTER HOST CONTROLLER:
1. Power off the controller.

ATTACHING THE HERMITCRAB COMMUNICATIONS CABLE:
1. Plug the HermitCrab controller communications cable into the remote connector on the upper left hand side of the front panel.

NOTE: All Rain Master Controllers will display the word “REMOTE” once they are powered on with the HermitCrab controller attached.
Superior Sterling

PREPARING YOUR STERLING HOST MC-E 2011 CONTROLLER:
1. Set the Sterling controller to the off position.
2. Power off the controller.

ATTACHING THE HERMITCRAB COMMUNICATIONS CABLE:
1. Connect the HermitCrab controller communications cable to the connector labeled REMOTE on the bottom right of the panel.
Weathermatic® SmartLine + 
Proline Models

PREPARING YOUR WEATHERMATIC CONTROLLER:
1. Set the Weathermatic to “SYSTEM OFF.”
2. Power off the controller.

ATTACHING THE HERMITCRAB COMMUNICATIONS CABLE:
1. Plug the HermitCrab controller communications cable into the remote connector.

- Weathermatic model with two remote ports. Connect communications cable to either one.
- Weathermatic model with one remote connector. Connect communications cable to remote connector.
HermitCrab Controller Installation Instructions (Continued from P.1)

Step 3: Connect Rain Sensor Wires (if Applicable)
If using a Hard-wired rain sensor:
1. Detach the wires from the rain sensor connector on the host controller.
2. Connect the rain sensor wires to the Rain Switch terminals on the HermitCrab controller. If you are using conduit, don’t forget to thread the wires through the conduit.
3. Be sure to select Rain Sense on the HermitCrab controller menu once you complete the set up process.

If using a Wireless rain sensor:
1. Leave the yellow power wires attached to the host controller.
2. The wires attached to the host controller’s rain sensor terminals will need to be extended so they can reach the HermitCrab controller.
3. Connect the extended wires to the to the Rain Switch terminals on the HermitCrab controller.
4. Be sure to select Rain Sense on the HermitCrab controller menu once you complete the set up process.

Step 4: Power up the Host Controller.
The display on the HermitCrab controller will illuminate and show the Setup Menu.

Step 5: Set the HermitCrab controller for the Host Controller Type.
1. Go to the setup menu using the control knob on the HermitCrab controller and turn the knob until Set Host appears on the display.
2. Press the knob to access the list of supported host controllers,
3. Turn the knob to until your host controller type is displayed.
4. Press the knob to select it.

Step 6: Turn On a Station to Insure Proper Communications with the Host Controller.
It is important to ensure the HermitCrab controller can activate a station on the host controller.
1. Go to the setup menu of the HermitCrab controller and turn the knob until Station Test appears in the display.
2. Press the knob to access the Station Test screen.

3. Turn the knob to select the station you want to activate, and then press the knob to select it. Use the same procedure to enter the run time minutes.

4. Highlight the Begin selection and press the knob to activate the station.

**Step 7: Enable the Rain Sensor (if applicable).**

1. Go to the setup menu of the HermitCrab controller using the menu knob and turn the knob until Rain Sensor Disabled appears in the display.

2. Press the knob and highlight Enable, then press the knob again to select it.

**Step 8: Execute a Test Dial**

A test dial initiates a connection to the ET Water servers, where all of your account information, landscape profiles, and watering schedules are stored.

1. Turn the knob to highlight the Test Dial selection and press the knob to select it. You'll see a bar graph indicating the signal strength. The HermitCrab controller should have three bars for optimal communication.

2. Highlight the Dial selection and press the knob to select it. After a short period, the HermitCrab controller will display that it is transmitting (“TX”) and will show that it is receiving (“RX”) with a count ranging from 1-10. When the communication is finished the word “Done” will appear on the display.

**Step 9: Complete the HermitCrab controller Setup.**

To complete the setup process, turn the knob until Setup Complete is shown on the display and press the knob to make the selection. Installation and set up of your HermitCrab controller is now complete.

_SOME KEY FACTS TO REMEMBER:_

- Your HermitCrab controller is designed to send watering commands to your host controller based on smart irrigation schedules it retrieves daily from your ETwater Manager account.

- Your HermitCrab controller receives its power from your host controller. When the host controller is turned off, your HermitCrab controller will also be turned off.
• If you want to use a remote control, you will need to disconnect the HermitCrab controller communications cable and reconnect it once the remote operation is complete. As an alternative, The ETwater Systems QuickDraw service (an optional, added cost service), lets you use a smartphone to send remote control commands to the controller from anywhere in the world.

• If you add watering stations or change your landscape profile, there’s no need to visit the site to reprogram your HermitCrab controller. Simply by editing your landscape profile online, the new information will download to your HermitCrab controller automatically.

• Your HermitCrab controller can connect to any compatible host controller—just be sure you have selected the correct Host type and that you are using the correct communications cable. You will also need to update your landscape profile if you move your HermitCrab to a new location.

• You can stop watering at any time by turning the knob to select Cancel. The display screen will display which station is currently being irrigated. The Cancel selection is at the bottom right of the display screen.
Using Your HermitCrab Controller

HOME SCREEN
The “Home Screen” shows basic information about your HermitCrab controller and its current status. Only three lines are visible on the display screen at any one time. The Home Screen shows:

• Current Date and Time
• Serial Number
• Status

Current Date and Time: This line displays the local time where your HermitCrab controller is installed. This information is automatically synchronized every time your HermitCrab controller connects to the ET Water servers.

Serial Number: Your serial number is unique, and you should use it if you call ETWater’s Customer Support group.

Status: This line tells you what your HermitCrab controller is doing.

There are five status modes:

Idle: Not currently watering.

Watering Currently: Watering a station using a downloaded schedule or a manual activation.

Suspended: HermitCrab controller operation has been suspended and will not water, but will make daily connections to the ET Water servers to download watering schedules.

Rain Sensed: The HermitCrab controller will not water because the rain sensor is wet (you will receive an alert for this condition via email).

Soaking: An automatic pause during irrigation to allow the water to soak in.
The Action Menus

There are 11 Action Menus. You access them from the Home Screen by pressing the selector knob, then rotating it to your desired selection. Once your selection is highlighted, press the knob to access the Actions sub-menu. The function of each selection is as follows:

**Percent Adjust:** Use this function to increase or decrease your irrigation run-times. Rotate the selector knob to select either one specific station, or all stations, and press the knob to make your selection. Next, rotate the knob to choose the percent adjustment you wish to make. Press the knob to make your selection. Finally, complete the process by selecting either Accept or Cancel. Once complete, the display will return to the Home Screen.

**Suspend Use:** this function to stop all scheduled watering. Rotate the selector knob to highlight your choice. On means all stations are suspended and no watering will occur. Off means all stations will water according to their downloaded schedules. Press the knob to make your selection. Once complete, the display will return to the Home Screen.

**Station Test:** Use this function to turn a station on and off. Rotate the selector knob until the station number you want to water appears. Press the knob to make your selection. Next, rotate the knob to select the number of minutes you would like the station to water. Press the knob to make your selection. You will need to press the knob again once Begin is highlighted, or you can cancel the watering command by selecting Cancel. If you select Begin, the display will change to show you which station is watering, the number of minutes you requested, and the number of minutes remaining. The selection Stop will be highlighted throughout the station test located on the left side of the display. To stop the watering before the station test is complete push the HermitCrab controller knob. Watering will stop, and the display screen will return to the Home Screen.

**Misc Status Info:** This selection will display the host currently selected for the HermitCrab controller, the current firmware version and the date / time the device last connected. This information will be helpful if you call ET Water’s Customer Support group.

**NOTE:** If you want only some stations to water, but not others, use your online account to apply restrictions to the stations you want to remain off.
Return: This menu selection provides a quick way to return to the HermitCrab controller’s Home Screen, and for convenience, appears several times within the list of commands.

Host Select: Rotate the selector knob until your host controller type is highlighted, then press the knob to make your selection. After making your selection, the display will return to the Home Screen.

Test Dial: A Test Dial initiates a connection to the ET Water servers where all of your account information, landscape profiles, and watering schedules are stored. You may perform a Test Dial at any time. With each connection, your HermitCrab controller downloads the latest watering schedules, so this feature is especially useful if you have made changes to your landscape profile.

When you access the Test Dial selection, the display shows the last connection date and time, a bar graph depicting the wireless signal strength, and two menu options: Dial and Don’t Dial. The bar graph must show some amount of cellular signal for the test dial to be successful. To execute a Test Dial, turn the knob to select Dial and then press the knob. Your HermitCrab controller will initiate a connection. The HermitCrab controller will indicate that it is transmitting (“TX”) and will show that it is receiving (“RX”) and it will display the number of data packets being sent. When the communication is finished, the display will show done. Your HermitCrab controller will terminate the connection automatically.

After a successful connection or one that you cancel, you will automatically return to the Home Screen.

Program Review: This screen shows the first watering start time and the number of programmed stations.

NOTE: If you had previously selected your host controller, its name will appear in the display. If it is correct and you don’t want to change it, press Cancel to return to the Home Screen without changing your host controller.

NOTE: During the connection, abort will be highlighted, which means you may press the knob to stop the connection in progress.
**Rain Sense:** This function allows your HermitCrab controller to operate with a rain sensor. If you connect a rain sensor to your HermitCrab controller, you must enable it as well. To enable your rain sensor, rotate the selector knob to highlight Rain Sense Disabled, then press the knob. Next, rotate the knob to select Enable. Press the knob to make your choice. You will automatically return to the Home Screen.

**Recent Activity:** This function displays “event codes” that describe operations your host controller has recently performed, and is useful should you need to call ETwater’s Customer Support group. Rotate the selector knob to scroll through the list. Press the selector knob to return to the Home Screen.

**NOTE:** You can cancel the rain sensor setup process by pressing the knob when Cancel is highlighted.
HermitCrab Controller Service Registration

YOUR ETWATER MANAGER ACCOUNT

After installing your HermitCrab controller, and before it can begin watering, you'll need to create an account on ETwater Manager and create a landscape profile for the landscape being watered. Once this is done, you'll have access to all of the important watering information you'll need to ensure your site is efficiently irrigated. You can log in at any time at www.etwater.com to review such information as:

- When your HermitCrab controller will water again, and which stations will water
- When your HermitCrab controller last watered
- The number of hours in your water window
- When your HermitCrab controller last communicated with the ET Water server
- Current weather information, including ET data
- Watering adjustments, restrictions, and suspensions.

REGISTERING YOUR HERMITCRAB CONTROLLER

You'll need:

- Your HermitCrab controller’s 10 digit serial number, which should be displayed on the main screen of the HermitCrab controller following a successful installation. You can also find it on the HermitCrab controller’s box, or on a label on the back of the HermitCrab.

Enter serial number here: ___ ___ ___ ___ ___ ___ ___ ___ ___

- Contact information, including an email address, for the person who will manage the irrigation system,

- Contact information, including an email address, for the person responsible for paying future service fees. This is usually the property manager or owner,

- The address and zip code where the controller will be installed.
REGISTERING YOUR HERMITCRAB CONTROLLER

You’ll need:

• Your HermitCrab controller’s 10 digit serial number, which should be displayed on the main screen of the HermitCrab controller following a successful installation. You can also find it on the HermitCrab controller’s box, or on a label on the back of the HermitCrab.

   Enter serial number here: ___ ___ ___ ___ ___ ___ ___ ___ ___ ___

• Contact information, including an email address, for the person who will manage the irrigation system,

• Contact information, including an email address, for the person responsible for paying future service fees. This is usually the property manager or owner,

• The address and zip code where the controller will be installed.

• Follow the onscreen instructions (see following page) until you have clicked on the “I agree” button on the Terms of Service page. This will complete your registration.

1. Go to www.etwater.com

2. Select the new user link if you do not have an ETWater Manager account, or, if you already have an account select log in then proceed to add the controller to an existing site or create a new site. The online ETWater Manager help documentation will step you through that process.

3. Enter all of the relevant contact, billing and site information.

4. Read the Terms of Service and click Accept if you agree to the terms.
CREATING A LANDSCAPE PROFILE FOR YOUR HERMITCRAB

It is important that the landscape profiles you enter be as accurate as possible. We recommend that you use our Landscape Profile Checklist on Page 5 to help you document your landscape, visiting the actual site if necessary.

Next, you must enter the required landscape information for each of your watering zones. Click the “Configure now” link on the controller overview page, and select the “step-by-step” landscape set up process. The process asks you to define your landscape in terms of sun exposure, soil type, slope, plant material, irrigation method, etc.

NOTE: For advanced information and training on ETwater Manager please review our online tutorials on our website: www.etwater.com.
Troubleshooting Guide

The cable won’t connect to the HermitCrab controller.
Make sure you’re trying to connect the end of the cable with the round, black connector. The embossed triangle on the connector should be facing out when you are plugging it into the HermitCrab Controller.

The cable won’t connect to the Host Controller.
Make sure you’re trying to connect the proper end of the cable. Also, every model of host controller has its own type of connector. Make sure that you have the correct cable for your model, and are aligning it correctly to make the connection.

There’s a loose wire on the cable. What do I do with it?
The wire probably attaches to the valve common terminal in your host controller. Refer to the specific information on connecting the HermitCrab controller to your host controller within this manual.

Where do the rain sensor wires go? Can I just interrupt the common?
The rain sensor wires connect to the small green screw terminals label “Rain Switch” on the HermitCrab controller. You’ll also have to enable the rain sensor using the HermitCrab controller’s setup screen. If you interrupt the common, the sensor will function, but the HermitCrab controller will not be able to alert you when the rain sensor is wet and the HermitCrab controller will not delay irrigation when there is rainfall.

The HermitCrab controller doesn’t turn on. I don’t think it is has any power.
Is the host controller turned on and operational? Your HermitCrab controller gets its power from the communications cable that connects it to the host controller. Check to be sure the host is on and working. If it is, but your HermitCrab controller still has no power, check the connection at both ends of the communications cable.

The HermitCrab controller doesn’t activate any stations.
First, check that the HermitCrab controller has been set to the correct host controller, if so proceed as follows.

Remove the HermitCrab controller communications cable from the host controller, and then activate the station using the host controller’s panel so that you’re using only the host controller. Does the station activate? If not, check for circuit or solenoid problems. If it does activate, reconnect the HermitCrab controller and attempt activation. If the station still doesn’t activate, try to activate other stations. If other stations don’t work, make sure the host controller has been correctly set to allow control by the HermitCrab controller (see the setup
instructions for your host controller in this manual). and the HermitCrab control-
er has been set for the correct host controller.

**When the watering start time occurs, nothing happens.**
Can your HermitCrab controller activate a station? Is the host controller cor-
rectly set to the mode specified for your specific controller? Check the Home
Screen to see if there’s a watering suspension in place. You should also check
your online account to see if any restrictions have been applied.

**The HermitCrab controller doesn’t display any irrigation schedules. I
don’t think it’s programmed correctly.**
Has the HermitCrab controller been registered online? Has it already con-
ected to the ET Water servers? All of the irrigation scheduling is programmed
online, not on the HermitCrab controller. After setting up the landscape profile
online, the HermitCrab controller must then connect to the ET Water servers
to download the watering schedule. Check the “Last Connect” display on the
“Misc Status Info” menu. If your HermitCrab controller has never connected,
you will need to initiate a Test Dial. No connection over a period of time would
indicate there is not enough signal strength for proper operation. Check the
signal strength and contact ET Water if needed. If it has connected but there
are still no schedules, check your account online to verify that the stations have
been configured.

**I was running more than one program, and I can’t figure out how to set
this up on the website.**
The host controller may have been set up with Program A, Program B, etc. The
HermitCrab controller provides one water window during which any necessary
watering will occur, and the online irrigation schedules determine when the
HermitCrab controller waters. Note that irrigation frequencies will be different
for turf and shrubs, and your online scheduling will likely select different water-
ing days for different plant material.

**Is there an antenna? Where does it go?**
The antenna is already installed inside your HermitCrab controller case.

**I don’t think the HermitCrab controller is connecting. What do I do?**
First go to the “Misc Status Info” menu and look at the last connect time and
date. This time and date should be less than 24 hours ago. If it is not proceed
as follows.
Initiate a Test Dial by selecting the Test Dial menu and pressing the selector knob when Dial is highlighted. If the display screen shows no connection activity after you select Dial, turn off the power by unplugging the communications cable from the bottom of the HermitCrab controller. Wait two full minutes before reconnecting the cable. Reconnect the cable and wait another two minutes. Initiate another Test Dial.

Whenever your HermitCrab controller makes a connection to the ET Water server, it displays the communication status in progress. After selecting the “Dial” step on the Test Dial menu, a “TX” will appear to indicate a connection has started and you will see “RX” and a series of numbers that represent the transfer of data. When the communication session is complete, the display will read “Done,” and your HermitCrab controller will terminate the connection automatically.

I need the HermitCrab controller serial number. Where is it?
When the HermitCrab controller is turned on, the serial number is displayed on the second line of the Home Screen following the S/N. It is also on a label on the bottom plate inside the HermitCrab controller box.

CUSTOMER SUPPORT SERVICES: Our Customer Support Center is open from 7:00 a.m. to 4:00 p.m. Pacific Standard Time, Monday through Friday, at (888) 685-5505. Be sure to have your account and serial numbers handy. You can also email us at support@etwater.com.
Limited Warranty

ET Water Systems, Inc. ("ET Water") warrants that any ET Water hardware product will be free from defects in materials and workmanship under normal use for a period of three (3) years after the date of purchase. Your sole and exclusive remedy and ET Water’s entire liability under this warranty is, at ET Water’s option, either (i) repair of the product, (ii) replacement of the product, or (iii) refund of the purchase price of the product (as evidenced by a copy of your purchase receipt), less any rebates or credits.

EXCLUSIONS

The above mentioned warranty shall not apply (i) if the product has been altered or modified without ET Water’s authorization, (ii) if the product has not been installed, operated, repaired, or maintained in accordance with ET Water’s instructions, (iii) if the product has been subjected to abnormal physical, thermal, or electrical stress, or to misuse, neglect, or accident, or (iv) if product failure occurs as a result of any cause not attributable to ET Water.

WARRANTY SERVICE PROCEDURES

You must notify ET Water (by contacting us at 1-888-685-5505) of any defect in the product within the applicable warranty period and provide dated proof of original purchase prior to the return of the product. Within ten (10) business days after the date of notification, ET Water will provide you with a Return Material Authorization ("RMA") number and the location to which you must return the product. You are responsible for proper packaging of the product returned to ET Water, shipment to ET Water’s designated location, and return of the product within ten (10) business days after issuance of the RMA number. ET Water does not accept responsibility for any product lost in transit and recommends that the return be insured for the full value of the product. Transportation costs relating to warranty service and any applicable duties will be borne by you. If a warranty claim is invalid for any reason, ET Water will contact you.

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