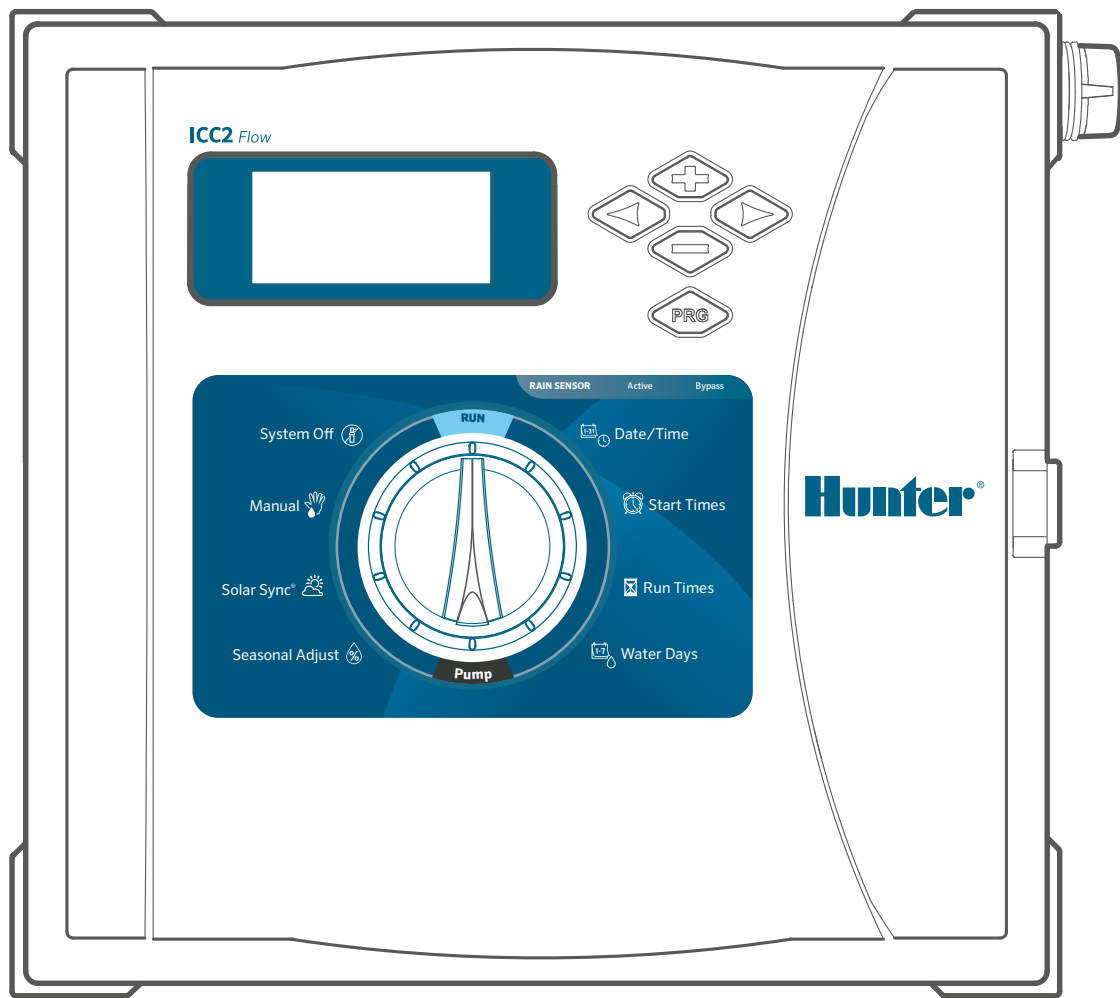


# ICC2

## MODULAR RESIDENTIAL AND COMMERCIAL IRRIGATION CONTROLLER

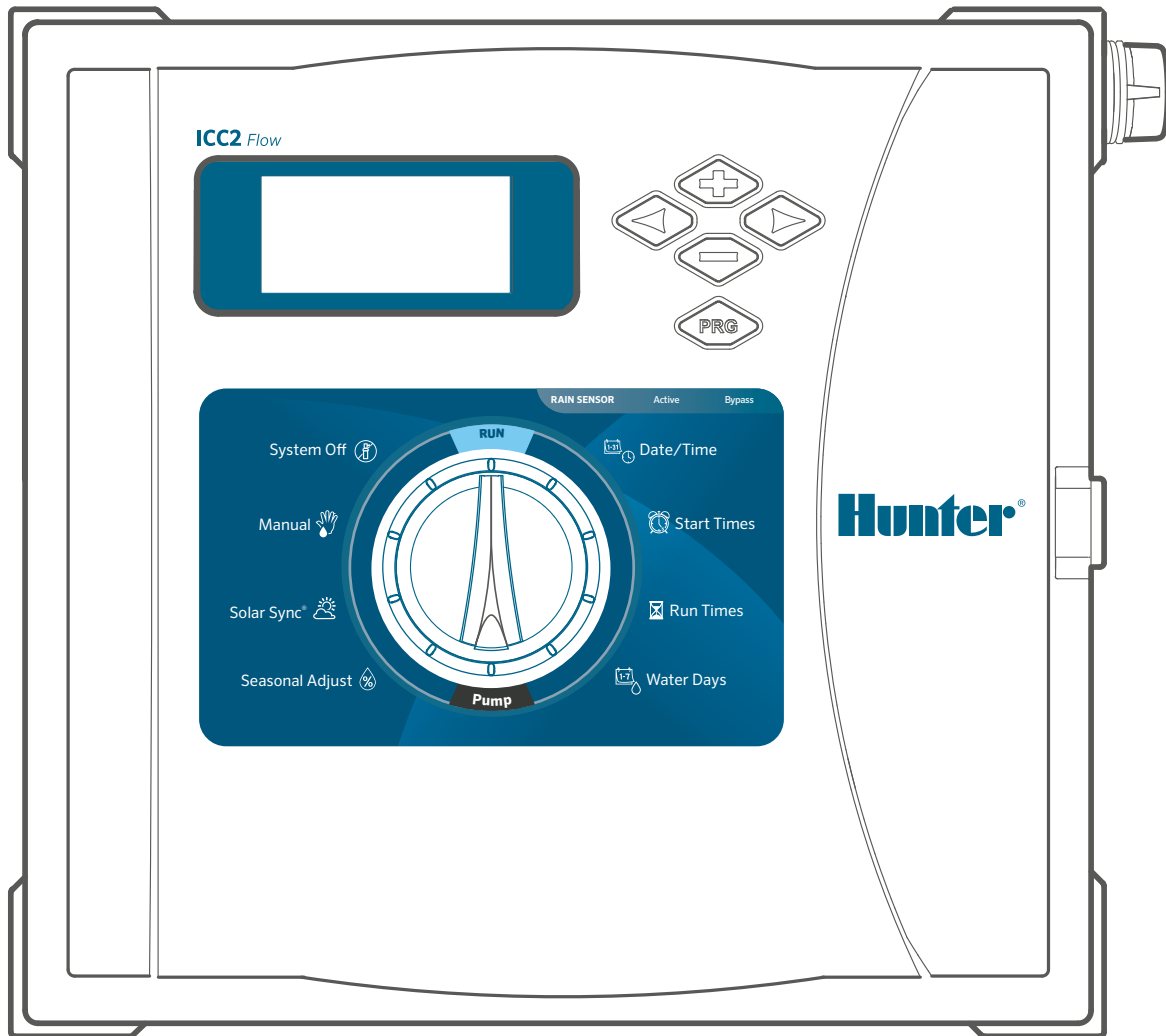


### Owner's Manual

- I2CF-800-PL: 8-station base model, plastic outdoor cabinet
- I2CF-800-M: 8-station base model, gray metal outdoor cabinet
- I2CF-800-SS: 8-station base model, stainless steel outdoor cabinet
- I2CF-800-PP: 8-station base model, plastic pedestal

**Hunter®**

# FORWARD DESIGN. BACKWARD COMPATIBLE.



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## OPERATING SPECIFICATIONS

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- **Number of Stations:** Modular design expandable from 8 to 38 (plastic), 8 to 54 (metal and pedestal), 8 to 54 with EZ Decoder System and/or Wireless Valve Link (all models)
- **Station Run Time:** 1 minute up to 12 hours
- **Start Times:** 8 per program, 4 independent programs (A, B, C, and D)
- **Simultaneous Program Operation:** 2
- **Sensor Inputs:** 2 = 1 Klik/Solar Sync; 1 Flow
- **Pump/Master Valve Outputs:** 1
- **Watering Schedule:** 7-day calendar, interval watering up to 31 days, or true odd / even day programming

## DIMENSIONS

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### PLASTIC CABINET

- Height: 12.0" (30.5 cm)
- Width: 13.7" (34.8 cm)
- Depth: 5.0" (12.7 cm)

### METAL CABINET (GRAY OR STAINLESS STEEL)

- Height: 16.0" (40.6 cm)
- Width: 13.0" (33.0 cm)
- Depth: 5.0" (12.7 cm)

### METAL PEDESTAL (GRAY OR STAINLESS STEEL)

- Height: 36.0" (91.4 cm)
- Width: 11.5" (29.2 cm)
- Depth: 5.0" (12.7 cm)

### PLASTIC PEDESTAL

- Height: 39.0" (99.1 cm)
- Width: 24.0" (61.0 cm)
- Depth: 17.0" (43.2 cm)

## ELECTRICAL SPECIFICATIONS

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- **Transformer Input:** 120 VAC, 60 Hz (230 VAC, 50/60 Hz international use)
- **Transformer Output:** 24 VAC, 1.4 A
- **Station Output:** 24 VAC, up to 0.56 A
- **Pump/Master Valve Output:** 24 VAC, up to 0.56 A
- **Battery:** 9 V alkaline battery (not included) used only for non-AC programming; non-volatile memory maintains program information
- **Front Panel Battery:** Internal CR2032 lithium battery (included) for real-time clock

## APPROVALS

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- CE, UKCA, UL, cUL, FCC, RCM
- **Plastic Cabinet:** IP55
- **Metal Cabinet (Gray or Stainless Steel):** IP55
- **Metal Pedestal (Gray or Stainless Steel):** IP55
- **Plastic Pedestal:** IP24

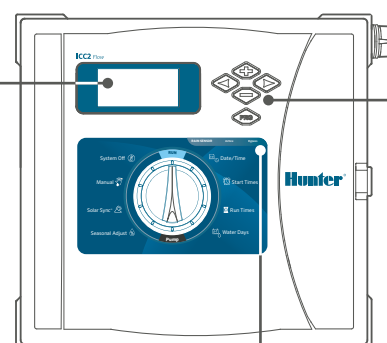
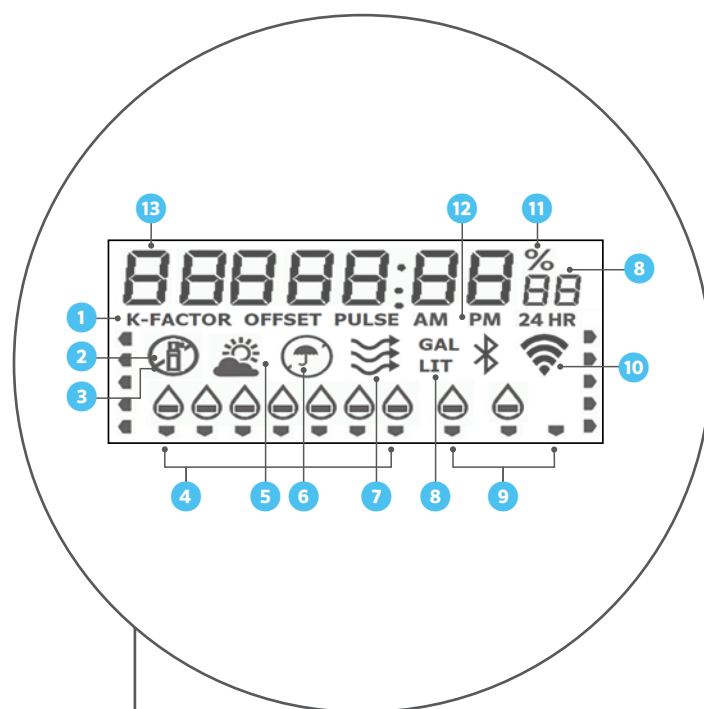
## DEFAULT SETTINGS

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- All stations are set to zero run time. This controller has a non-volatile memory that retains all entered program data, even during power outages, without the need for a battery.

## DISPLAY SCREENS

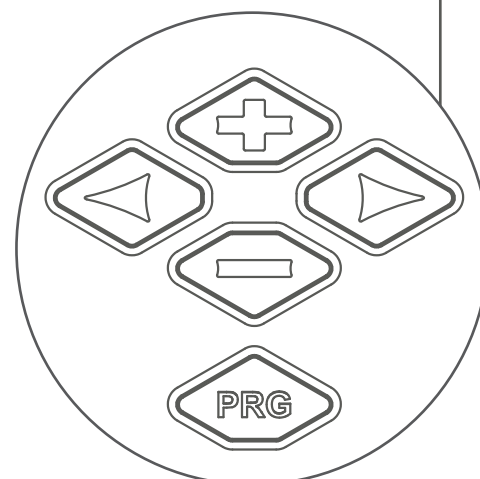
1. **Flow Sensor Configuration Options:** Adjust flow sensor settings with K-Factor, Offset, and Pulse parameters.
2. **Station Running:** Indicates when watering occurs.
3. **Sprinkler Off Days:** Indicates watering will not occur on selected day.
4. **Days of the Week:** Select the specific days, from Monday through Sunday, when watering will occur.
5. **Solar Sync Symbol:** Indicates optional Hunter Solar Sync Sensor is in use.
6. **Rain Sensor Active/Override:** Indicates if sensor is set to active or bypass mode.
7. **Flow Monitoring Symbol:** Shows that real-time flow monitoring is active.
8. **Gallon/Liter Selection Symbol:** Choose the preferred water usage measurement unit (gallons or liters).
9. **Odd/Even/Interval Days:** Indicates if odd, even, or interval watering days are selected.
10. **Wi-Fi Symbol:** Displays the current connectivity status.
11. **Season Adjust %:** Indicates seasonal adjustment percentage in 5% increments.
12. **Time Mode (AM/PM/24 HR):** Select AM, PM, or 24-hour display.
13. **Program Indicators:** Identifies the program in use (A, B, C, or D).



Sensor Bypass Switch

## CONTROL BUTTONS

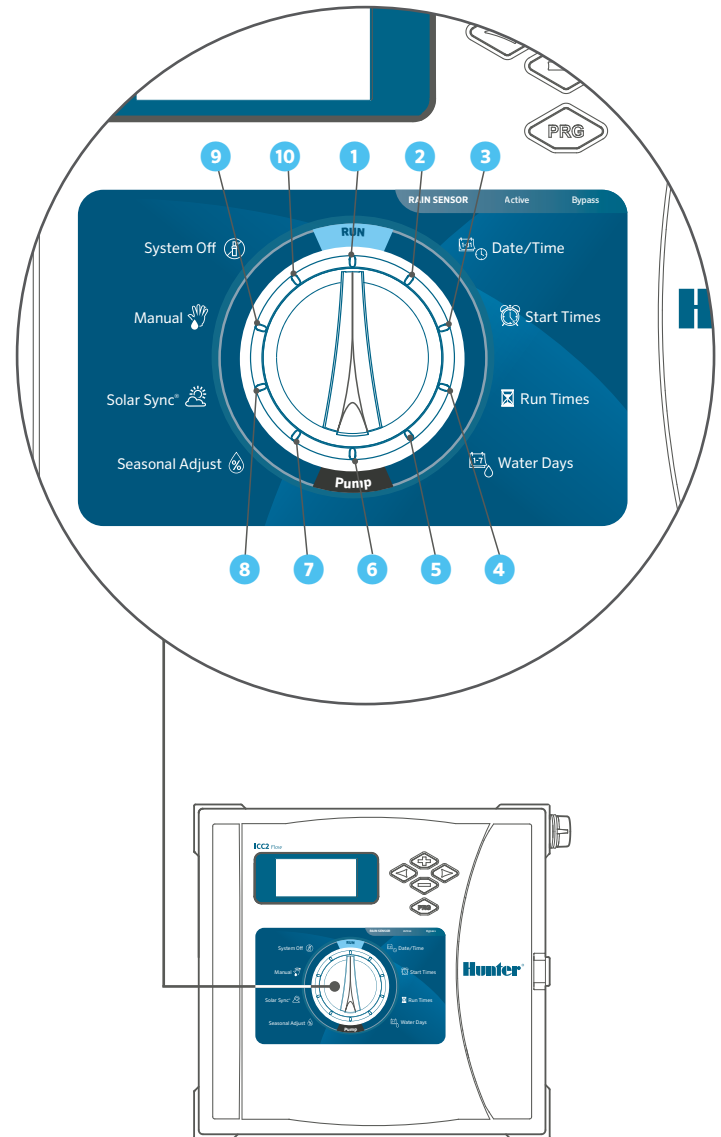
- + Plus Button:** Increases selected flashing display.
- Minus Button:** Decreases selected flashing display.
- ▶ Forward Arrow:** Advances selected flashing display to the next item; also used to start manual cycle.
- ◀ Back Arrow:** Returns selected flashing display to the previous item.
- PRG Program Button:** Selects and programs (A, B, C, or D); also used to start a test program.
- RAIN SENSOR Bypass Switch:** Use to bypass optional Hunter Klik Sensors.



Control Buttons

## CONTROL DIAL

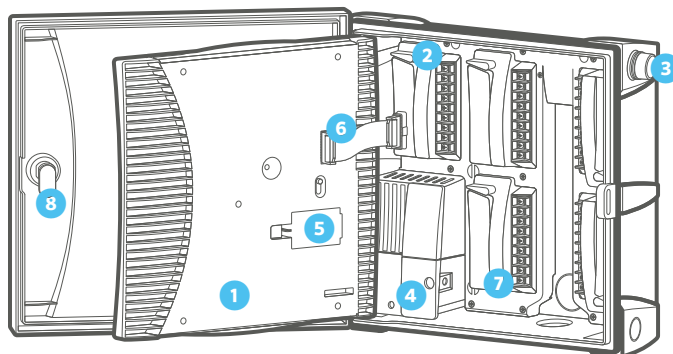
1. **Run:** Activate automatic operation.
2. **Date/Time:** Set current date and time.
3. **Start Times:** Set 1 to 8 start times in each program.
4. **Run Times:** Set each station run time.
5. **Water Days:** Select individual, odd, even, or interval watering days.
6. **Pump:** Turn pump or master valve on or off for each station.
7. **Seasonal Adjust:** Change all run times in all programs by a percentage from 5% to 300%.
8. **Solar Sync®:** Set up and adjust option for Hunter Solar Sync Sensor.
9. **Manual:** Immediately activate one-time watering of a single station.
10. **System Off:** Stop all watering until the dial is returned to the RUN position.



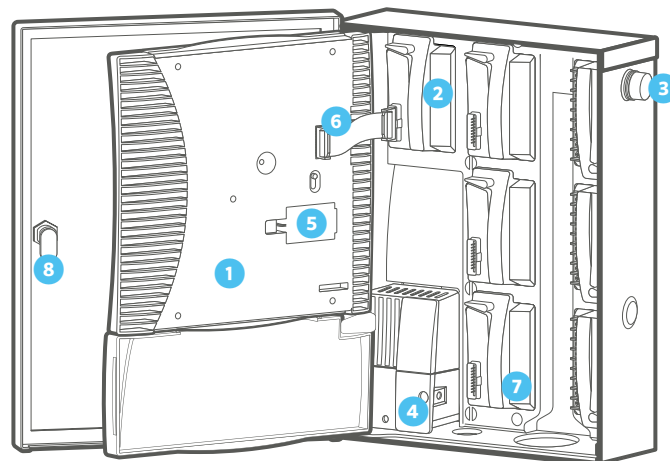
## WIRING COMPARTMENT

- 1. Facepack/Control Panel:** Primary console for programming the controller.
- 2. Power Module:** Provides power to the controller and must be in place for controller to operate; contains 24 VAC, sensor, remote, and P/MV terminals.
- 3. SmartPort® Connector:** Enables use of Hunter ROAM and ROAM XL Remotes.
- 4. Transformer:** Preinstalled with 120 VAC, 230 VAC, neutral, and ground wires (includes additional earth grounding lug for supplemental lightning protection).
- 5. Battery Compartment:** Houses a 9 V battery (not included) that allows programming when AC power is unavailable and a 3 V CR2032 lithium battery (included) to operate a real-time clock.
- 6. Ribbon Cable:** Connects facepack to power module and transmits information from the control panel to the inner controller assembly.
- 7. Station Output Modules:** Plug-in modules expand controller capacity by 4, 8, or 22 stations (ICM-400, ICM-800, ICM-2200) or up to 54 stations using EZ Decoder (EZ-DM) or Wireless Valve Output Modules (WVOM).
- 8. Door Lock:** Preinstalled lock assembly with 751 key (alternative 701, 702, or 703 key/lock assemblies also available).

## PLASTIC CABINET

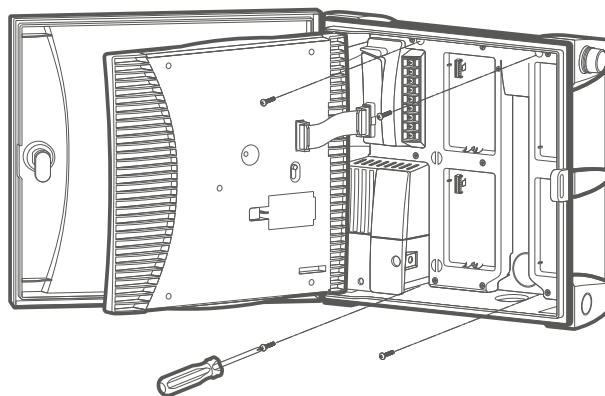
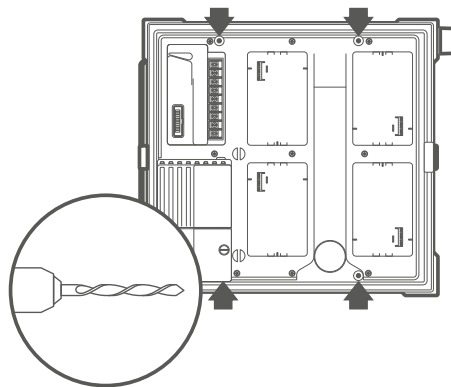
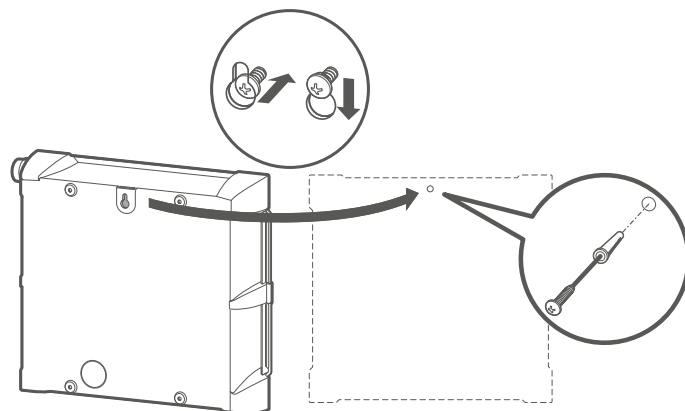


## METAL CABINET



## PLASTIC CABINET WALL MOUNTING

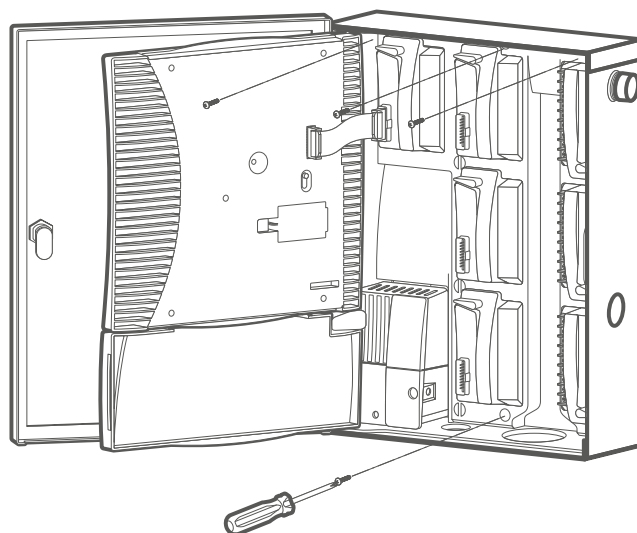
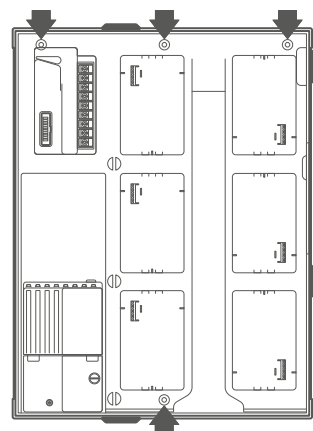
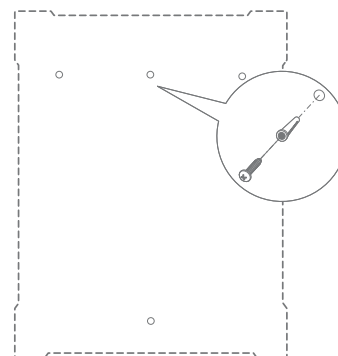
1. Remove door and control panel for easier access. Use the enclosed hole template to mark and drill mounting holes. Be sure to leave enough room to open the door. Install screw anchors if attaching to drywall or masonry wall.
2. Secure a 1" (25 mm) screw into the wall, leaving ¼" (6 mm) free of the wall. Slide the top center keyhole on the rear of the controller over the screw and hang the cabinet on the screw head.
3. Drill four pilot holes for the remaining mounting screws.
4. Secure the controller in place by installing screws in the four remaining holes from inside the cabinet. Reattach the control panel and the door.





## METAL CABINET WALL MOUNTING

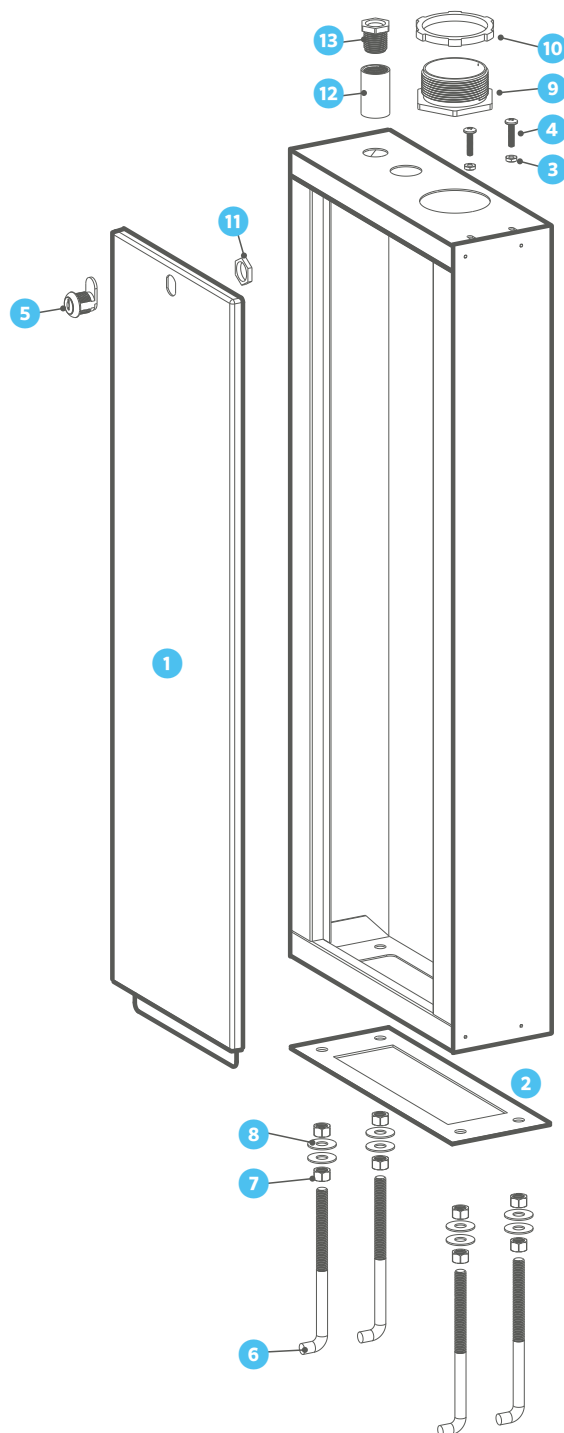
1. Remove door and control panel for easier access. Use the enclosed hole template to mark and drill mounting holes. Be sure to leave enough room to open the door. Install screw anchors if attaching to drywall or masonry wall.
2. Secure a 1" (25 mm) screw into the wall, leaving ¼" (6 mm) free of the wall. Slide the top center keyhole on the rear of the controller over the screw and hang the cabinet on the screw head.
3. Drill four pilot holes for the remaining mounting screws.
4. Secure the controller in place by installing screws in the four remaining holes from inside the cabinet. Reattach the control panel and the door.



## METAL PEDESTAL MOUNTING

### ICC-PED OR ICC-PED-SS

1. ICC Pedestal Door
2. Pedestal Mounting Template
3. Nut, #10-32 (qty: 2)
4. Screw, #10-32 x 7/8" (qty: 2)
5. Lock
6. Pedestal Mounting J-Bolt (qty: 4)
7. Nut, Hex 3/8" (qty: 8)
8. Washer, Flat 3/8" (qty: 8)
9. 2" (50 mm) Conduit Nipple
10. 2" (50 mm) Conduit Locknut
11. Hex Nut, Door Lock
12. 1/2" (13 mm) Conduit Coupler
13. 1/2" (13 mm) Conduit Nipple



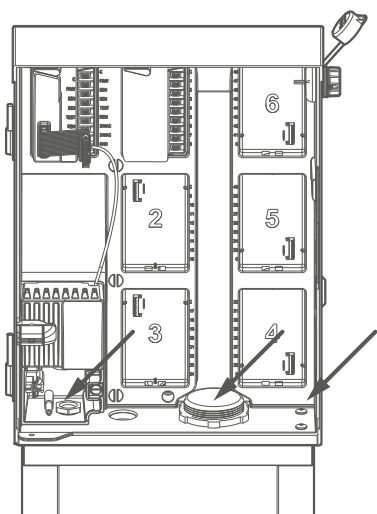
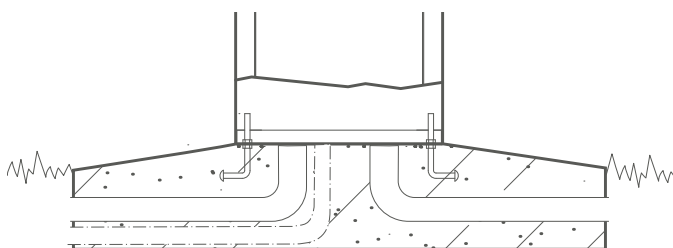
## PREPARE THE CONCRETE

1. Prepare a form for a concrete pad, approximately 20" W x 16" D x 4" H (50 cm W x 40 cm D x 10 cm H) at grade level. Slope the concrete downward away from the pedestal.
2. Install the J-bolts and wire sweeps (power supply, ground wire, and irrigation control conduits) in the template and position them in the opening.
3. Remove the pedestal door and attach the base of the pedestal to the J-bolts in the concrete slab.

## INSTALL CONTROLLER ON THE PEDESTAL

Before installing controller to pedestal, ensure all necessary conduit plugs are removed from the bottom of the controller.

1. Secure the controller by inserting 2" (50 mm) conduit nipple up through the top of the pedestal into the bottom of the controller, and tighten the locknut on the threads.
2. Remove the wiring compartment cover from the front of the transformer junction box, and secure the controller with ½" conduit coupler and nipple.
3. Insert two #10-32 screws down through the screw holes on the bottom right side of the cabinet, and tighten with corresponding nuts.

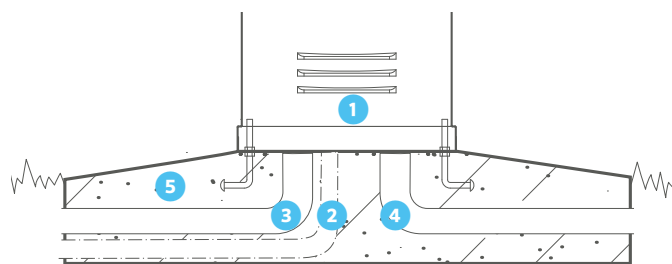


## PLASTIC PEDESTAL MOUNTING

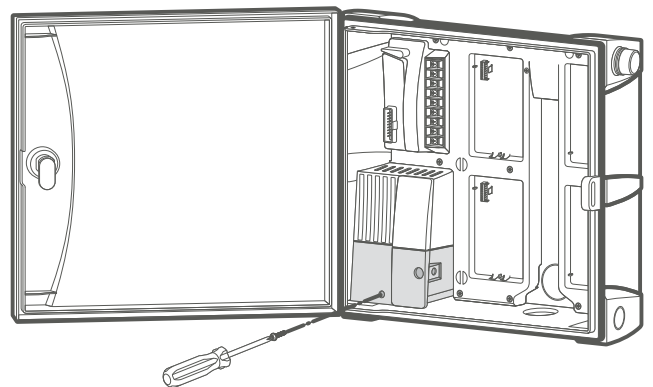
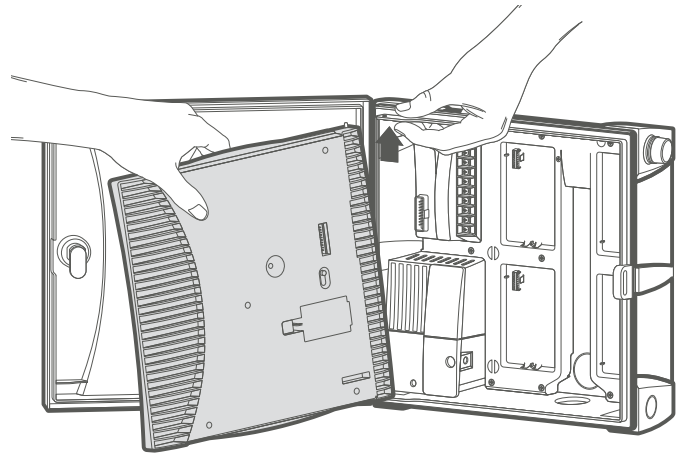
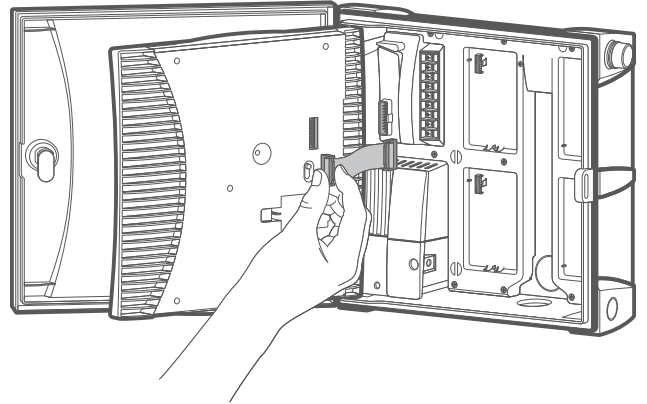
1. Mount the irrigation controller pedestal to the concrete form.
2. Electrical supply conduit: Connect to the power source with the J-box inside the controller.
3. Ground wire conduit: Ground per ASIC guidelines.
4. Run irrigation control wire through the conduit per local codes.
5. Pedestal base per plan: Ensure positive drainage away from the pedestal.



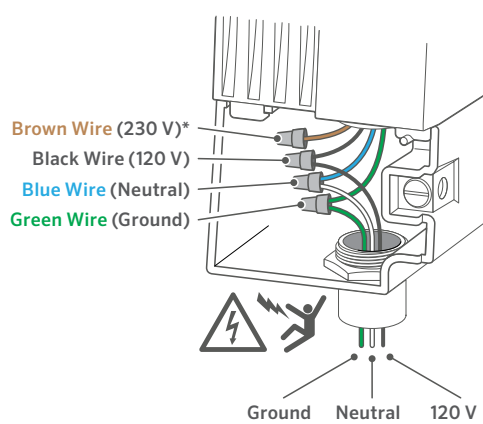
Note: Controller shall be hardwired to grounded 120 VAC or 230 VAC (international) power source.



1. Turn off AC power at the source and verify it is off.
2. Disconnect the facepack ribbon cable, and remove the facepack from the cabinet.
3. Remove the screw and wiring compartment cover from the front of the transformer junction box.



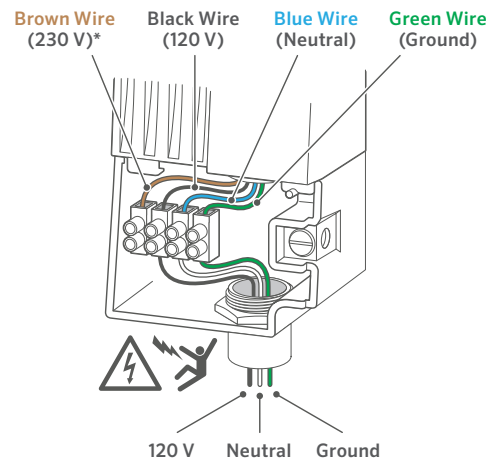
## 120 VAC WIRE NUT INSTALLATION



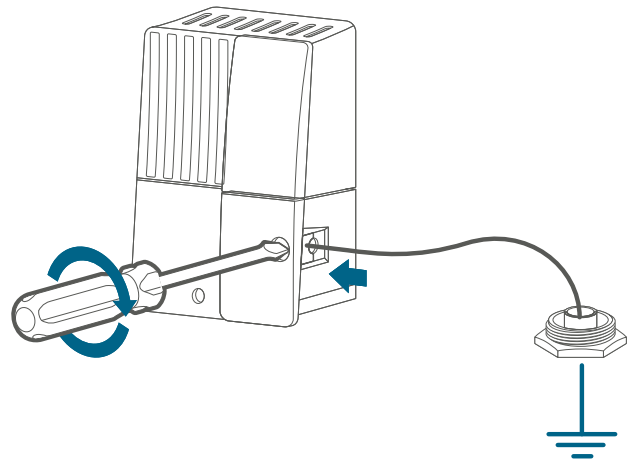
\* Brown Wire (230 V) for International Use Only

4. Strip about ½" (13 mm) of insulation from the end of each AC power wire.
5. Route the wires through the conduit opening inside the junction box.
6. Connect AC wiring as shown above, using supplied terminal block or taped wire nuts where permissible.
7. Replace wiring compartment cover, turn on power, and test for functionality.
8. Insert copper wire from earth ground hardware, and tighten screw in front to secure the wire.
9. At minimum, use 10 AWG (5 mm<sup>2</sup>) wire to earth ground hardware (bare copper wire recommended).
10. Add copper-clad steel ground rods and/or plates sufficient to achieve 10Ω or less resistance at a minimum of 8' (2.5 m) away from controller.

## 120 VAC TERMINAL BLOCK INSTALLATION



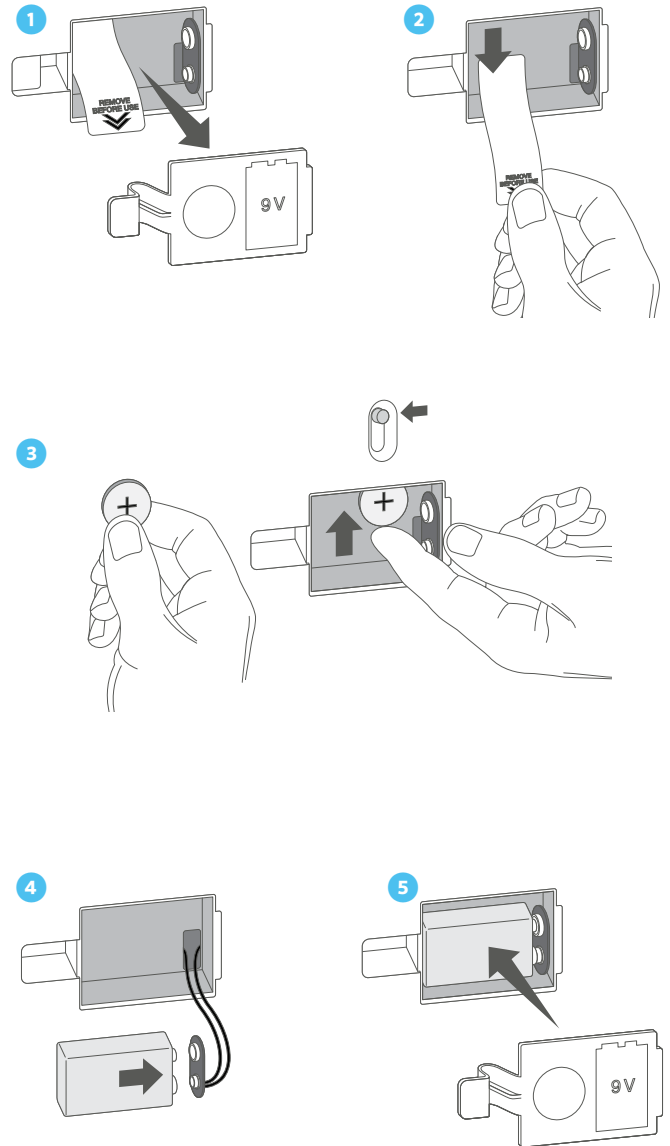
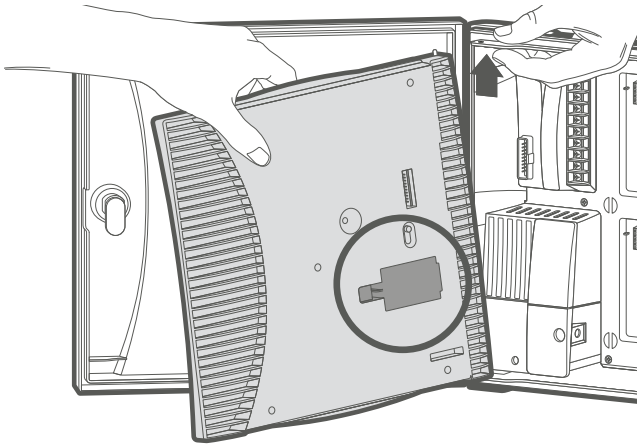
\* Brown Wire (230 V) for International Use Only



Note: This step is highly recommended for all installations and is required to properly ground metal and stainless steel configurations.

## Battery Activation

1. The battery compartment is located on the back side of the control panel. Remove the cover plate to access both the 9 V (optional) and 3 V CR2032 lithium batteries.
2. Remove the plastic tab from the CR2032 battery slot to activate real-time date and time backup.
3. To replace the CR2032 battery, slide the blue lever down to eject the old one. Insert new battery into the slot.
4. Optional: If desired, use a 9 V battery (not included) to program the control panel when removed from the cabinet. Note that the control panel cannot run automatic schedules or activate stations on battery-supplied power.
5. Reinstall the cover plate to enclose the battery compartment.

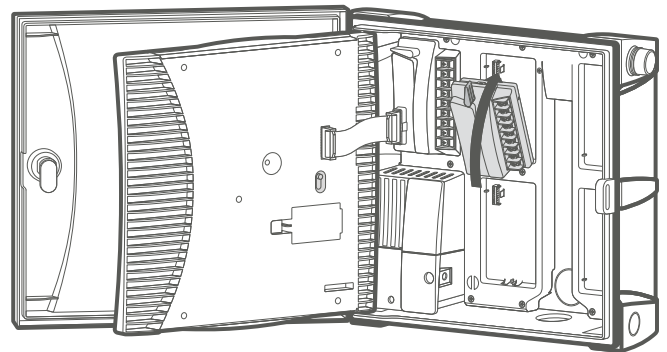


1. Flip the blue locking lever into the vertical (unlocked) position.
2. Insert the two tabs on one end of the module into the mating holes in one end of the slot, and push the module firmly into place. Note: Station modules will be installed upside-down in station output slots 3 and 4 (plastic) and slots 4, 5, and 6 (metal).
3. Flip the locking lever into the horizontal (locked) position.
4. Press the “Reset” button on the back of the control panel.

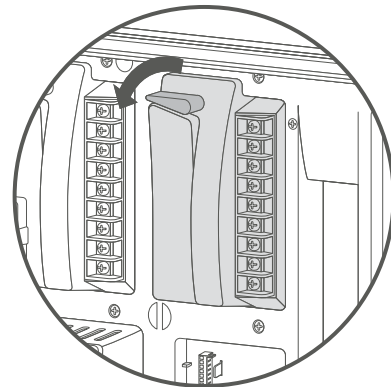


Note: Pressing the “Reset” button is required for the controller to recognize the new module.

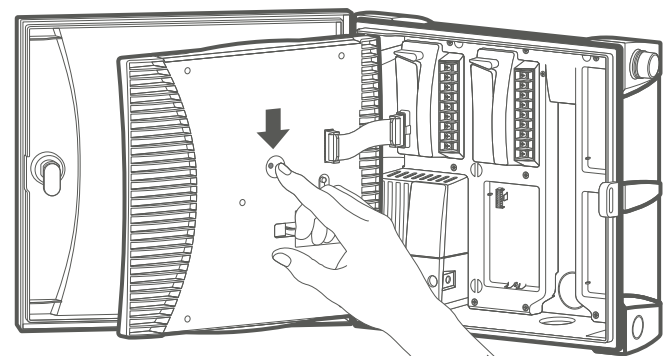
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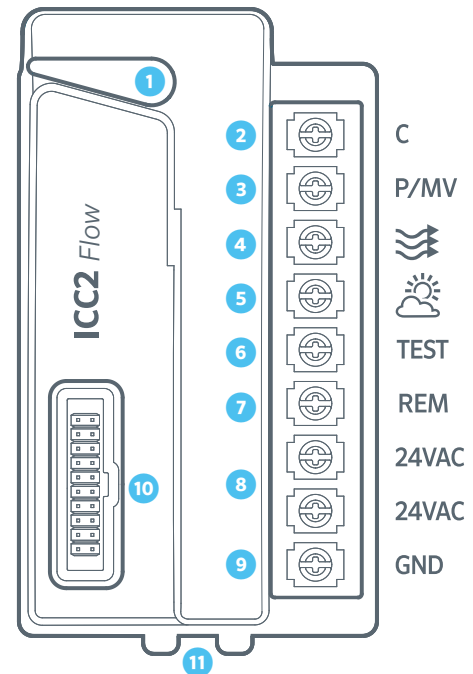


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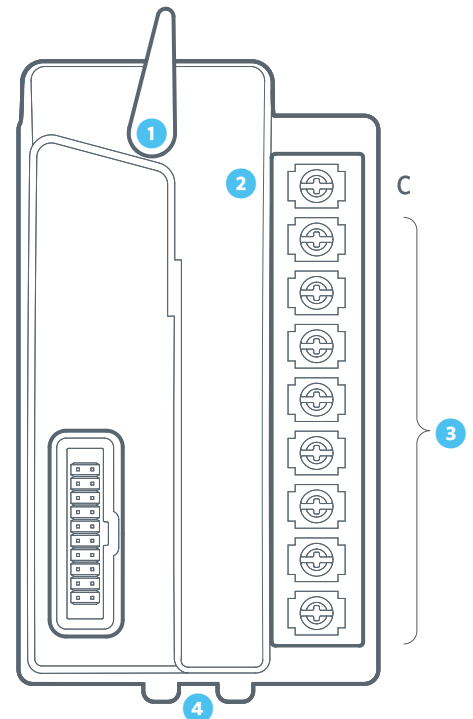
## POWER MODULE

1. **Locking Lever:** Flip up to remove or install the module, or flip down to lock the module into place.
2. **C (Common Wire Connection):** Makes common connection for P/MV and/or sensor wiring.
3. **P/MV (Pump/Master Valve Connection):** Up to 0.56 A for Master Valve or Pump Start Relay activation.
4. **Flow sensor input:** Connects to a flow sensor to monitor water flow.
5. **Solar Sync or Klik Sensor input:** Allows connection to a Solar Sync or Klik Sensor for system integration.
6. **Test 24 VAC (always on):** Use to test and locate valve wires.
7. **REM (Remote Control Input):** Prewired to Hunter SmartPort® connector for use with Hunter ROAM and ROAM XL Remotes.
8. **24 VAC (x 2) Transformer Connection:** Connects 24 VAC yellow wires from the transformer. Also used to power Hunter sensor modules and receivers.
9. **GND:** Connects green safety ground wire from the transformer.
10. **Ribbon Cable Connection:** Connects the controller to the control panel.
11. **Installation Tabs:** Tip the module and insert these tabs into the station output slot.



## STATION MODULES

1. **Locking Lever:** Flip up to remove or install the module, or flip down to lock the module into place.
2. **C (Common Wire Connection):** Makes common connections for station wiring.
3. **Station Terminals:** Numbered connections for each 24 VAC station output wire to valves. ICM-400 has four, ICM-800 has eight, and ICM-2200 has 22 station output terminals.
4. **Installation Tabs:** Tip the module and insert these tabs into the station output slot.

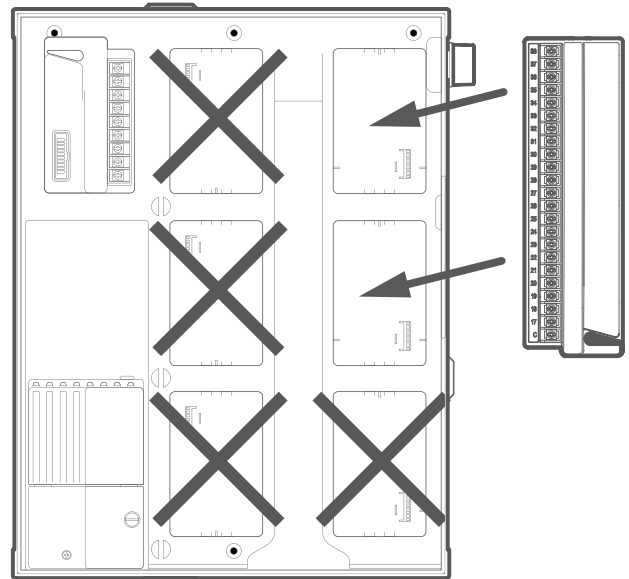
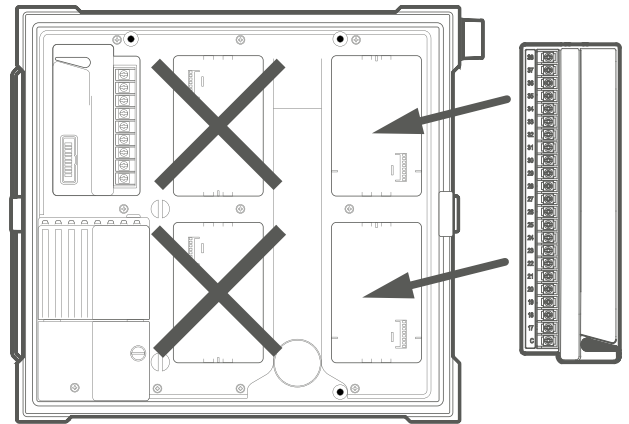




The ICM-2200 expansion module increases conventional station count to 38 (plastic) and 54 (metal). This module can be installed exactly like the ICM-400 and ICM-800 station modules; however, it covers two station output slots.



Note: The ICM-2200 must be installed in the highest two output slots: 3 and 4 (plastic) or 5 and 6 (metal). Also, there cannot be any empty slots before the ICM-2200. Remember to press the “Reset” button on the back of the control panel after installation.



## CONNECTING STATION WIRES

Each ICC2 Controller comes with a factory-installed base module for up to 8 stations (ICM-800). Additional modules may be added in increments of four (ICM-400), eight (ICM-800), or one 22-station expansion module (ICM-2200). Each station module has its own common terminal, which runs in conjunction with the corresponding station terminals within the module. Each station output is rated for 0.56 A maximum, which can safely operate up to two Hunter solenoids simultaneously.

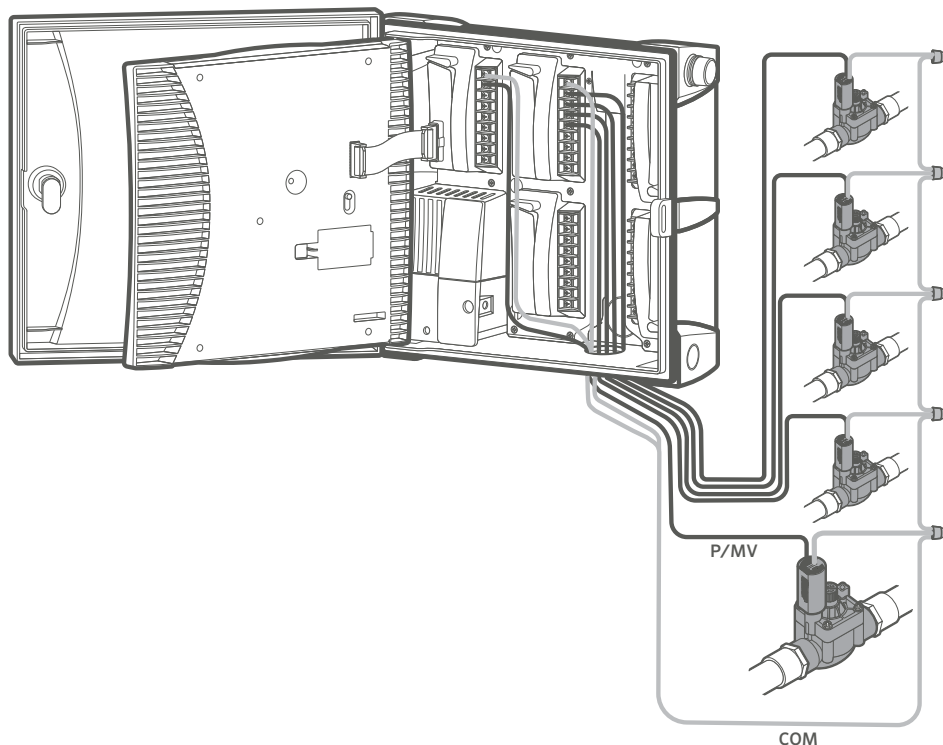
1. Route station/valve wires between the control valve and the controller.
2. At the valve(s), attach the common wire to either solenoid wire for each individual valve. This is most commonly a white-colored wire. Attach a separate control wire to the second remaining solenoid wire of each valve. All wire splice connections should be made using waterproof connectors.
3. Route all common and valve control wires through an incoming conduit to the controller. The conduit can attach to any of the knockout openings at the bottom of the cabinet from ½" (13 mm) up to 2" (50 mm) diameter.
4. Strip ½" (13 mm) of insulation from the ends of all wires. Secure the valve common wires to corresponding COM terminals. Attach all individual valve control wires to the appropriate station terminals.

## CONNECTING A MASTER VALVE (OPTIONAL)

Complete this section only if you have a Master Valve installed.

The ICC2 Controller has one Pump/Master Valve (P/MV) output, which is capable of activating either a normally closed Master Valve or 24 VAC Pump Start Relay. A Master Valve is typically installed at the supply point of the main line and opens only when the automatic system is activated. The purpose of a Master Valve is to shut off the water to the irrigation system when none of the station valves are operating. It's also beneficial for shutting off a system when a zone or mainline develops a leak or break. The P/MV output is rated for up to 0.56 A.

1. Route the Master Valve wire pair into and out of the cabinet similarly to the station wires.
2. The P/MV output is located on the power output module in the upper left corner of the ICC2 Controller.
3. Connect either wire from the Master Valve to the P/MV terminal, and connect the remaining wire to the common COM terminal.
4. The Master Valve can be set to activate with any station. By default, it activates with all stations, but it can be programmed to enable or disable for individual stations.



## CONNECTING A PUMP START RELAY (OPTIONAL)

Complete this section only if you have a Pump Start Relay installed.

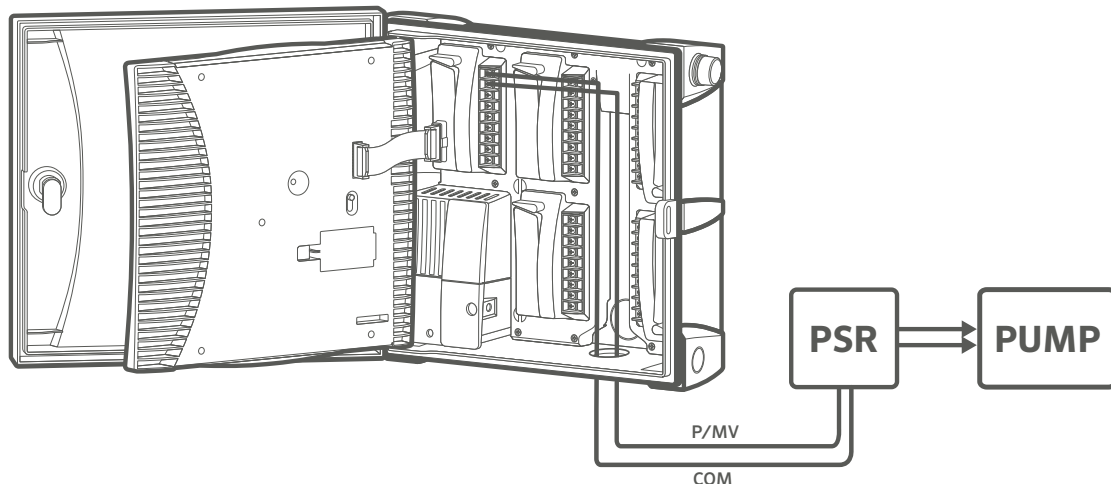
The ICC2 Controller features one Pump/Master Valve (P/MV) output for activating either a normally closed Master Valve or 24 VAC Pump Start Relay. A Pump Start Relay is an electrical device that allows the controller to operate a pump when supplying water to the system. Pumps must always be connected through a Pump Start Relay to avoid damaging the controller. The P/MV output supports up to 0.56 A.

1. Route the Pump Start Relay wire pair into and out of the cabinet similarly to the station wires.
2. The P/MV output is located on the power output module in the upper left corner of the controller.
3. Hunter Pump Start Relays come with two yellow 24 VAC flying leads: one that connects to the common COM terminal and one to the P/MV terminal.

4. Mount the controller at least 15' (4.5 m) from the Pump Start Relay to minimize electromagnetic noise. Although issues are rare, the 24 VAC wires can sometimes transmit noise back to the controller, and maintaining this distance helps prevent interference.
5. The Pump Start Relay can be set to activate with any station. By default, it activates with all stations, but it can be programmed to enable or disable for individual stations.



hunter.help/PSR



## CONNECTING A HUNTER CLIK SENSOR

A Hunter weather sensor or any normally closed, micro-switch-type sensor can be connected to the ICC2 Controller. The purpose of this sensor is to stop automatic watering when weather conditions dictate. The controller has one weather sensor input available and is compatible with Hunter's full line of Clik sensors, including:

- Flow-Clik® Sensor
- Freeze-Clik® Sensor
- Mini-Clik® Sensor (wired and wireless)
- Rain-Clik® Sensor (wired and wireless)
- Soil-Clik® Sensor
- Solar Sync® Sensor (wired and wireless)
- Wind-Clik® Sensor

All Hunter Clik Sensors are normally closed and open on alarm, which alerts the controller to suspend watering. The controller can be programmed to shut down the entire controller, or only individual stations, once the sensor is triggered (see Programmable Sensor Override instructions).

1. To connect a Hunter Clik Sensor, locate the weather sensor input (☂) on the power module.
2. Route the wires from the Clik Sensor through any of the available knockouts into the controller cabinet.
3. Remove the red jumper wire that is attached across the weather sensor input (☂) and common terminal (C).
4. Connect one wire to the weather sensor input (☂) and the other wire to the C terminal on the top of the power module.



Note: The Sensor Bypass Switch must be set to "Active" for the controller to react to a sensor alarm. Once an alarm is triggered, the display will read OFF and show a solid umbrella symbol. If no sensor is installed, you must reinsert the jumper wire on the SEN terminals or set the Sensor Bypass Switch to "Bypass."

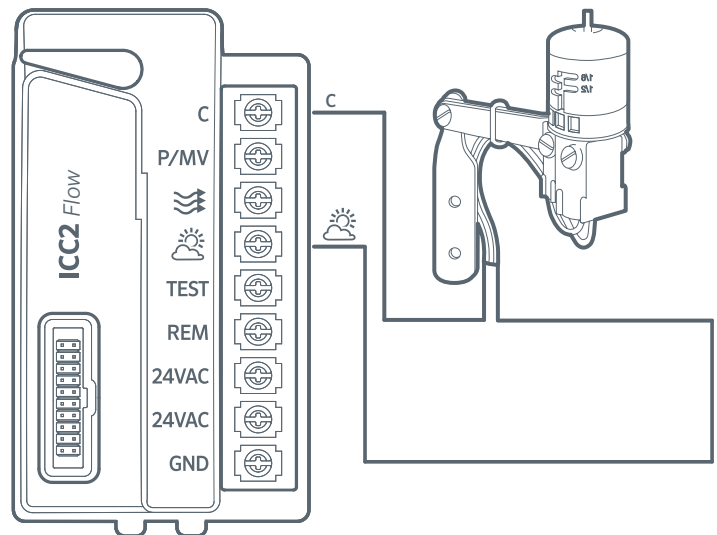
## SENSOR BYPASS SWITCH

This switch will either enable or disable a weather sensor that has been connected to the controller. When the switch is in the "Active" position, the controller will adhere to the state of the sensor and shut down irrigation if the sensor is triggered. If the sensor is in a closed state, the controller will operate as normal. If the sensor is in an open state, but you would like your automatic irrigation to operate as normal, simply move the switch to the "Bypass" position. The sensor will now be overridden, and the controller will operate as programmed.

If you do not have a sensor installed, the position of the Sensor Bypass Switch can be in either Active or Bypass mode. This is true as long as the jumper wire connecting the weather sensor terminal to common remains in place. If a jumper wire has been removed, keep the Sensor Bypass Switch in the Bypass mode. Otherwise, no automatic irrigation will occur.



Note: The Manual Single Station function ignores any attached sensor and will allow manual watering to occur.



## CONNECTING A HUNTER SOLAR SYNC SENSOR (NOT INCLUDED)

When connected to an ICC2 Controller, the Solar Sync Sensor will automatically adjust your programmed watering schedule based on changes in local climate conditions. It utilizes a solar radiation and temperature sensor to measure on-site weather conditions and determine evapotranspiration (ET), which is the rate at which plants and turf use water. In addition, the Solar Sync Sensor also includes a Hunter Rain-Clik and Freeze-Clik Sensor that will shut down the irrigation system during rainy and/or freezing conditions.

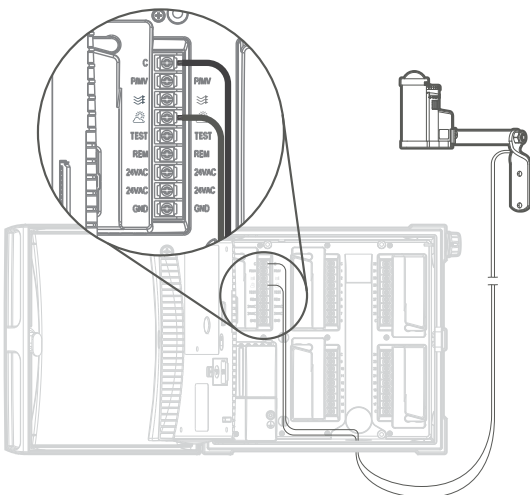
For further programming instructions, refer to the Solar Sync Owner's Manual or visit the Solar Sync support section:



[hunter.help/SolarSync](http://hunter.help/SolarSync)

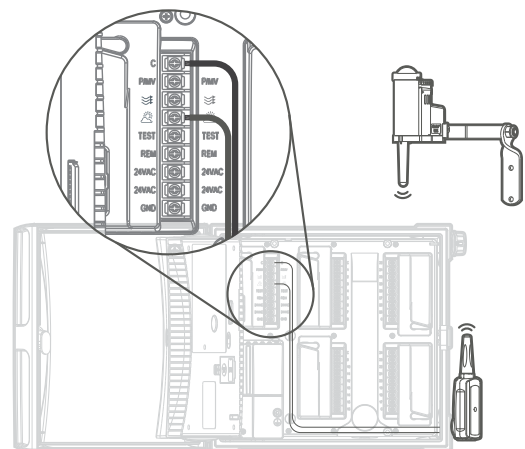
### WIRED SOLAR SYNC INSTALLATION

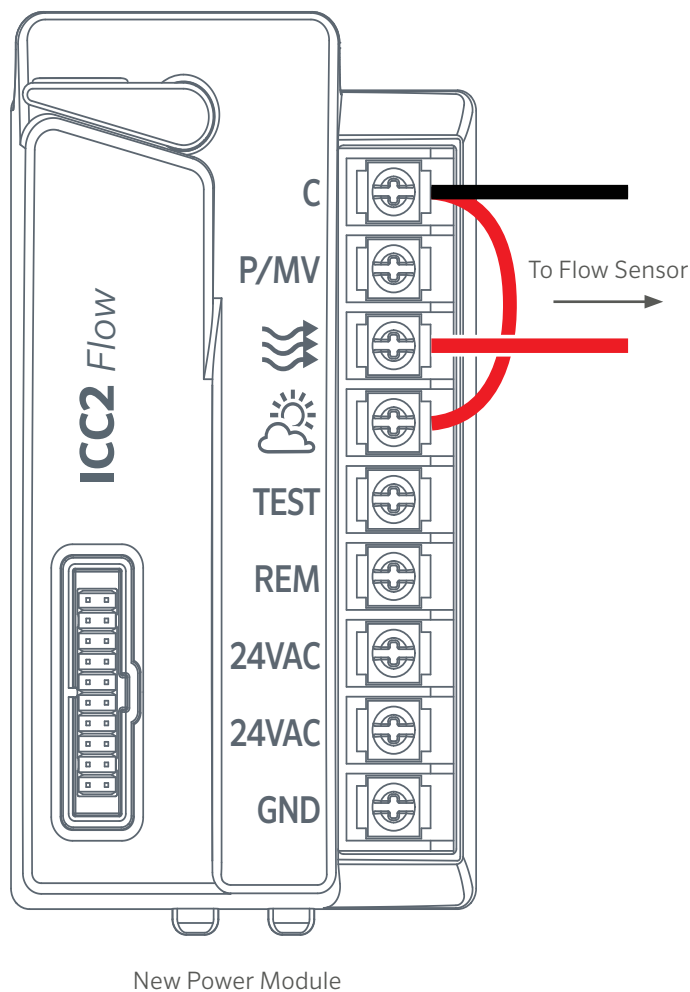
1. Using the screws provided, mount the sensor in the upright position on a surface exposed to direct sun and rainfall, away from sprinkler spray and within 200' (60 m) of the controller.
2. Route the green and black wire pair through any of the available knockouts into the controller cabinet.
3. Remove the red jumper wire that is attached across the weather sensor input (☀️) and common terminal (C).
4. Connect either wire to the weather sensor input (☀️) and the second wire to the C terminal on the top of the power module.



### WIRELESS SOLAR SYNC INSTALLATION

1. Repeat steps 1-4 at left. However, you'll connect the green and black wires from the Wireless Solar Sync Receiver to the weather sensor input, as opposed to wires coming from the sensor.
2. The receiver can be mounted in the knockouts on the side of the controller or to a wall using the wall mounting bracket and hardware provided.
3. The sensor can be mounted up to 800' (240 m) from the receiver, which is pre-paired to the same frequency. Once installed, the receiver enters "search" mode to detect the paired sensor. Manually initializing communication during setup is recommended to confirm signal transmission.
4. After the receiver's green and black wires have been connected to the controller, the red LED in the center of the receiver will activate and remain solid for 10 seconds, indicating that it's searching for a signal from the sensor.
5. While the receiver is searching, press and hold the spindle on the sensor. The LED on the receiver will blink four times and then turn off, indicating that the signal from the sensor has been acknowledged.
6. To double-check or validate existing receiver/sensor communication, press and hold the spindle on the sensor. The LED on the receiver will blink twice, confirming that the receiver is addressed to the sensor properly.





## CONNECTING A HUNTER FLOW SENSOR (OPTIONAL)

I2CF-800 Series Controllers include built-in flow monitoring capabilities and two sensor inputs: one for a flow sensor and the other for a Klik/Solar Sync Sensor.

These sensor inputs wire separately across the Common terminal on the Power Module, designated by a flow icon and a weather icon.

All flow monitoring is enabled and configured at the ICC2 Controller facepack.



Note: All flow-monitored stations must have a Run Time set prior to the flow learning process. Any stations without a Run Time will not be included in the calibration.

1. Route flow sensor wires from the field into the controller cabinet through any of the available conduit knockouts.
2. Connect either wire to the flow sensor input (🌊) and the second wire to the C terminal on the top of the power module.
3. Complete flow setup and monitoring configuration at the controller facepack.

## FLOW SETUP MENU

Hold **+** button and turn dial to Pump, then release the **+** button to access the Flow Setup menu.

## FLOW MONITOR MENU

Hold **-** button and turn dial to Pump, then release the **-** button to access the Flow Monitor menu.

## FLOW READING AND ALARMS

To view real-time flow rates while the controller is running manual or automatic irrigation, press the PRG button on the facepack. The controller will display the flow rate for any active stations. Press the PRG button again to return to the Run screen.

“H St. # Err” = High-flow alarm detected for that station

“L St. # Err” = Low-flow alarm detected for that station

“FL Err” = Total overflow threshold has been exceeded

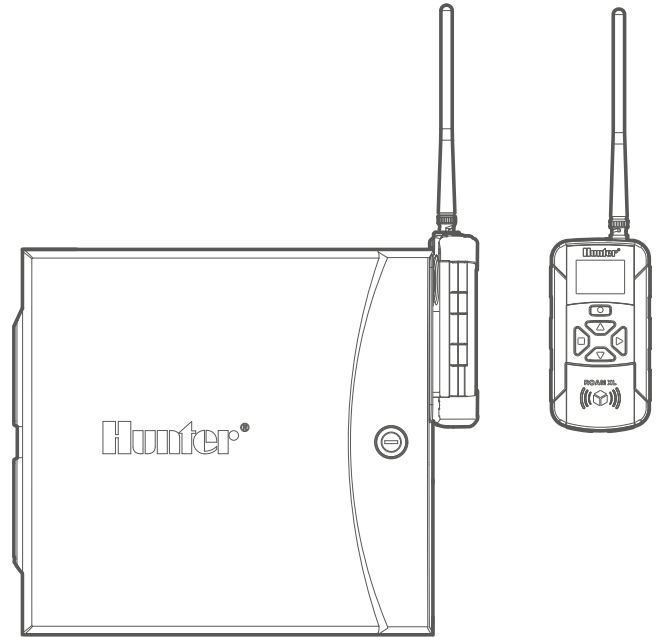


[hunter.help/ICC2Flow](https://hunter.help/ICC2Flow)

## CONNECTING A HUNTER REMOTE (NOT INCLUDED)

The ICC2 Controller is compatible with both Hunter ROAM and ROAM XL Remotes, and each controller comes with a factory-installed SmartPort Wiring Harness. This provides instant remote connection capability, which enables manual system operation without walking back and forth to the controller.

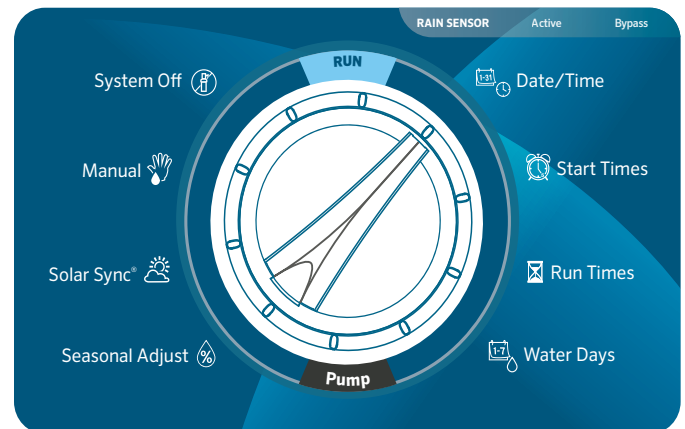
1. To connect either a ROAM or ROAM XL Remote Kit to your controller, simply remove the weather-resistant rubber cover on the SmartPort, align the remote receiver's pins with the connector, and push firmly until the receiver is fully seated.
2. Each ROAM and ROAM XL System is preaddressed to work right out of the box. Once you install the receiver into the SmartPort Wiring Harness, it will beep four times. After approximately 7 seconds, the receiver will again beep twice to confirm it's programmed to the correct address. To verify that the transmitter and receiver are communicating properly, press either the ► or stop button on the transmitter. The receiver should beep twice, indicating proper communication. If the receiver does not beep, check the batteries in the transmitter and repeat the process.



[hunter.help/Roam](http://hunter.help/Roam)

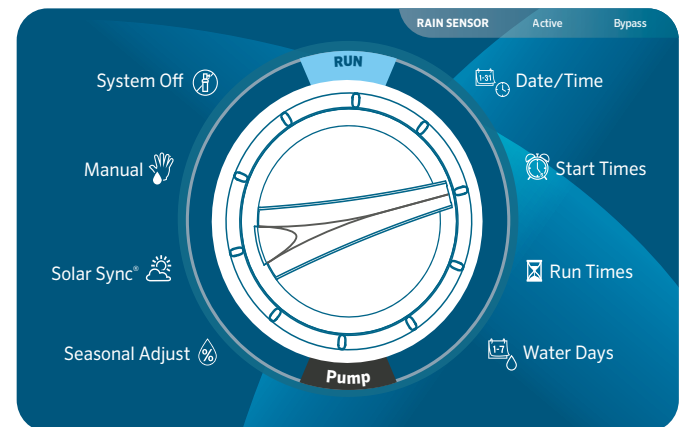
## SETTING CURRENT DATE AND TIME

1. Turn the dial to the Date/Time position.
2. The year will flash. Use the **+** and **-** buttons to select the current year.
3. Push the **▶** button to advance to the month setting. The month will flash. Use the **+** and **-** buttons to select the current month.
4. Push the **▶** button to advance to the day setting. The day will flash. Use the **+** and **-** buttons to select the current day of the month.
5. Push the **▶** button to advance to the time setting. The time will display. Use the **+** and **-** buttons to select AM, PM, or 24 HR to display all times in 24-hour mode.
6. Press the **▶** button to advance to hours. Use the **+** and **-** buttons to update the display to show the current hour.
7. Press the **▶** to advance to minutes. Use the **+** and **-** buttons to update the display to show the current minutes.



## SETTING PROGRAM START TIMES

1. Turn the dial to the Start Times position.
2. Press the **PRG** button to select A, B, C, or D.
3. The start time will flash. Use the **+** and **-** buttons to change the start time. Start times advance in 15-minute increments.
4. Press the **▶** button to add another start time or the PRG button to set a start time for the next program. Note: The controller has eight start times available per program, and it can run any two programs simultaneously.



## ELIMINATING A PROGRAM START TIME

1. With the dial set to the Start Times position, push the **+** and **-** buttons until you reach 12:00 AM (midnight).
2. From here, push the **-** button once to reach the OFF position.



## SETTING STATION RUN TIMES

1. Turn the dial to the Run Times position.
2. Press the **PRG** button to select A, B, C, or D.
3. The run time for Station 1 will flash. Use the **+** and **-** buttons to change the station run time. You can set station run times from 1 minute up to 12 hours.
4. Press the **▶** button to advance to the next station.
5. Repeat for each station and program that you wish to run.

## TOTAL RUN TIME CALCULATOR

1. Turn the dial to the Run Times position.
2. Press **◀** to view the total time for all stations in the program.
3. Press **PRG** to see the total times for other programs.

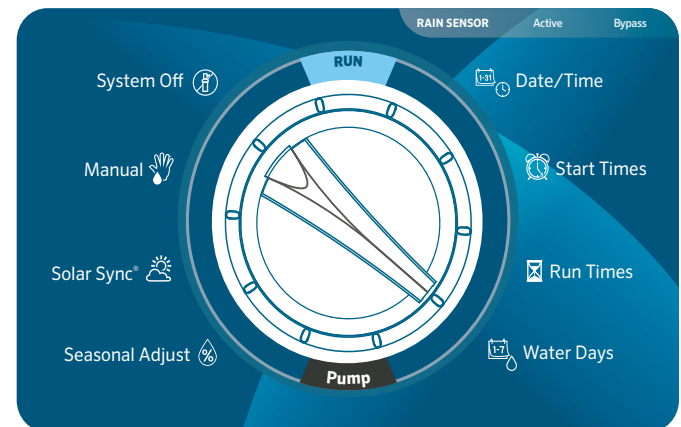
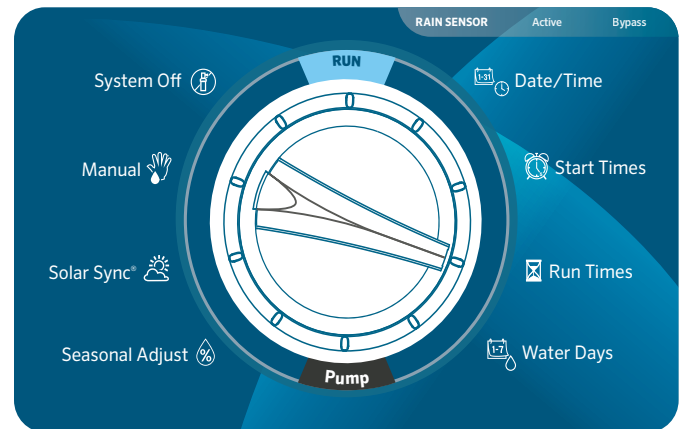
## SETTING WATER DAYS

1. Turn the dial to the Water Days position.
2. The display will show the last program selected (A, B, C, or D). Switch to desired program by pressing the PRG button.
3. The pointer at the bottom of the screen will blink above MO (Monday). Press the **+** or **-** buttons to select days for watering (☀) or no water (☾).
4. After selecting to water or withhold irrigation for a specific day, the pointer will automatically advance to the next day. You can also toggle between individual days by pressing the **▶** and **◀** buttons.

## SELECTING ODD OR EVEN DAYS TO WATER

This feature uses numbered days of the month for watering, instead of specific days of the week (i.e., odd: 1st, 3rd, 5th, etc.; even: 2nd, 4th, 6th, etc.).

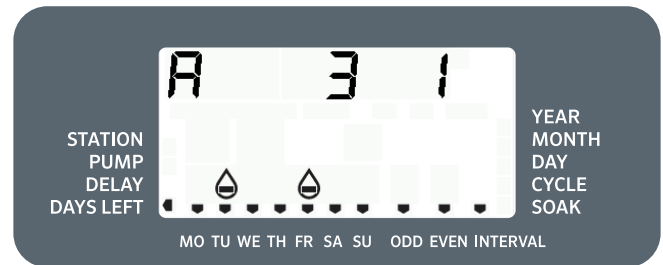
1. Press the **▶** button past all days of the week so the pointer blinks above ODD or EVEN.
2. Press the **+** button to select or the **-** button to cancel Odd or Even days.



## SELECTING INTERVAL WATERING

This feature simplifies scheduling by setting a consistent watering interval, regardless of specific dates or days. The selected interval indicates the number of days between watering, including the watering day (e.g., a 2-day interval waters every other day).

1. Press the ► button past ODD and EVEN until the pointer is blinking above INTERVAL.
2. The number of interval days will blink (the default setting will be 1).
3. Press the + or - buttons to increase or decrease the interval days (up to 31 days).
4. Once the interval days are greater than 1, a second number will appear to indicate the days remaining in the interval. Press the ► button to select this number and press the + or - buttons to increase or decrease the days remaining until the next watering. This number represents the desired number of days until the next watering. For example, if you select an interval of 3 days with 1 day remaining, watering will begin tomorrow at the scheduled start time(s) and will repeat the schedule every third day from that day forward.
5. Within the Interval Watering mode, there is also a No Water Days option. After setting your interval days and days remaining, press the ► button to select individual non-water days. The default setting shows all days available for watering. Press the ► and ◀ buttons to toggle between days and the - button to exclude specific days from watering.



## SELECTING PUMP/MASTER VALVE ACTIVATION

1. Turn the dial to the Pump position.
2. Press the ► button to select individual stations.
3. Press the + or - buttons to set the Pump/Master Valve output to ON or OFF for each station.



Note: The default Pump/Master Valve setting for all stations is ON.

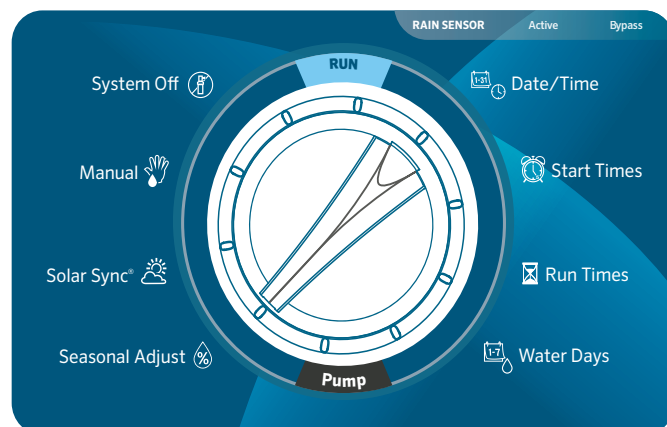
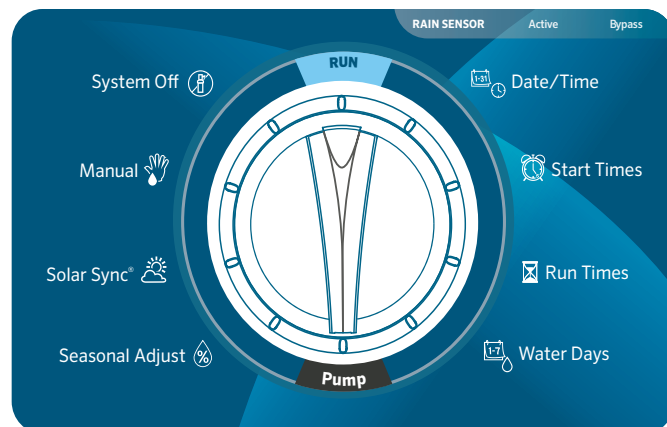
## SETTING SEASONAL ADJUST

The Seasonal Adjust feature is used to make global run time changes without reprogramming the entire controller. This is perfect for making small schedule changes that are necessary as the weather shifts. For instance, hotter times of the year may require a bit more water, while cooler seasons may call for less water. Seasonal Adjust can increase or decrease original run times by a specified percentage based on local weather conditions.

1. Turn the dial to the Seasonal Adjust position.
2. Press the + or - buttons to change from 5% to 300% of original run times.



Note: The default setting for Seasonal Adjust is 100%.



## SETTING SOLAR SYNC

Add an optional Solar Sync Sensor (wired or wireless) for automatic Seasonal Adjustment based on daily weather conditions on-site.

1. Turn the dial to the Solar Sync position.
2. The Region setting will flash. Press the **+** or **-** buttons to select Region 1-4. For accurate Solar Sync measurements, the Region must be programmed for the typical peak ET for your area (see the Solar Sync Owner's Manual).
3. Press the **▶** button to select the Water Adjustment value. Press the **+** or **-** buttons to increase or decrease Water Adjustment from 1-10. The default setting is 5 and is recommended to remain at 5 after installation. However, if the Seasonal Adjustment appears to be changing too much or too little, the Water Adjustment value can be modified. Scan below to access the online Solar Sync support section.



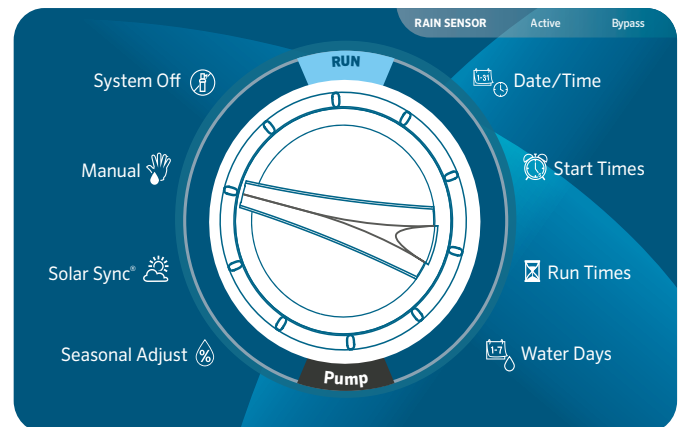
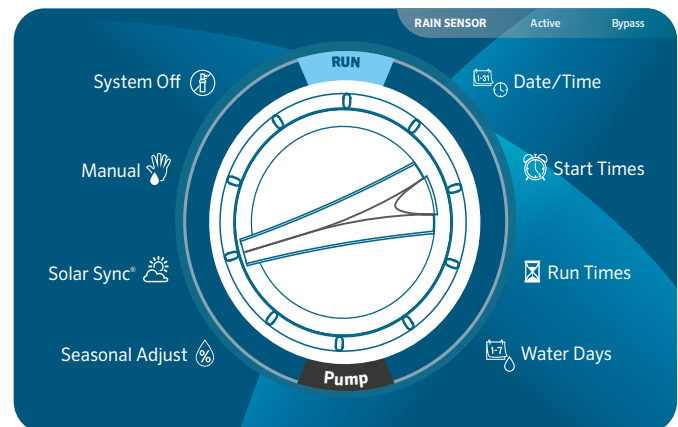
[hunter.help/SolarSync](https://hunter.help/SolarSync)

## MANUAL OPERATION OF A SINGLE STATION

1. Turn the dial to the Manual position.
2. The station run time will flash in the display. Press the **▶** button to advance to the desired station.
3. Press the **+** and **-** buttons to select run time duration from 1 minute to 12 hours.
4. Turn the dial to the Run position, and the station will begin watering. Only the designated station will water for its specified duration. Once completed, the controller will return to automatic run mode with no changes to the previously set program.



Note: The Manual Single Station function ignores any attached sensor and will allow watering to occur. Do not use Manual Single Station to test a rain sensor. Use Run Program and One-Touch Manual Start instead.



## SETTING SYSTEM OFF

To stop all irrigation, including any stations which are already running, turn the dial to the System Off position. OFF will appear on the display and, within a few seconds, any running stations will shut down. No automatic programs can start while the controller is set to System Off. To return the controller to normal operation, simply reset the dial to the Run position.

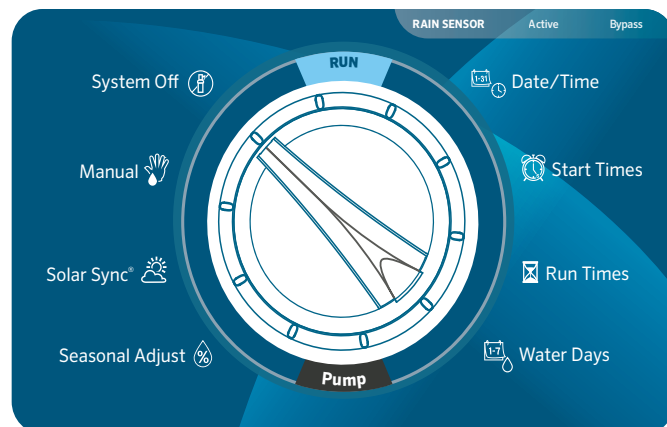
## PROGRAMMABLE RAIN OFF

This feature stops all programmed watering for a designated period from 1 to 99 days. At the end of the programmable rain off period, the controller will resume normal automatic operation.

1. Turn the dial to the System Off position, and wait for the OFF to stop flashing.
2. Press the **+** and **-** buttons to set the number of days to remain off.
3. Turn the dial back to the Run position. The display will show how many days off remain. The days off remaining will decrease by one at midnight of each day. Once the display reaches 0, it will revert to show the normal time of day, and automatic irrigation will resume at the next scheduled start time.



Note: To cancel Programmable Rain Off settings, turn the dial to the System Off position, wait for the OFF to stop flashing, then return the dial to the Run position.



## FEATURES AND THEIR LOCATIONS

1. **Programmable Sensor Override:** Hold **-** and turn to Start Times.
2. **Cycle and Soak:** Hold **+** and turn to Run Times. Enter cycle time and Press **PRG** to set soak time.
3. **Delay Between Stations:** Hold **-** and turn to Run Times.
4. **Hide Programs:** Hold **-** and turn to Water Days.
5. **Solar Sync Delay:** Hold **+** and turn to Solar Sync.
6. **Click Delay:** Hold **+** and turn to System Off.
7. **Total Run Time:** Turn to Run Times. Press **◀** from Station 1. Press **PRG** to view other programs.
8. **Test Program:** Hold **PRG** for 3 seconds.
9. **Easy Retrieve® Memory:** Hold **+** and **PRG** to save. Hold **-** and **PRG** to restore.
10. **Total Reset:** Hold **PRG** and “Reset” button.
11. **QuickCheck™ Technology:** Hold **+**, **-**, **◀**, **▶**, together. Press **+** to begin check.
12. **Run Program:** Hold **▶** and press **PRG** to select program. Press **▶** to advance stations.
13. **Flow Setup:** Hold **+** and turn to Pump.
14. **Flow Monitor:** Hold **-** and turn to Pump.

## PROGRAMMABLE SENSOR OVERRIDE

The ICC2 Controller can be programmed to enable an independent sensor response for each station. This feature allows the sensor to disable watering for only the desired stations (as opposed to the entire system). For example, patio gardens or other landscapes that are underneath overhangs or roofs may not receive water when it rains and will still need to be watered during periods of rain.



Note: The controller default setting is ON, which means the sensor is active and will disable watering on all zones once the sensor is triggered.

1. With the dial in the Run position, press and hold the **-** button, turn the dial to the Start Times position, and release the **-** button.
2. The display will show the station number, and ON will flash. Press the **+** and **-** buttons to enable or disable the sensor for the station shown.

ON = sensor enabled (will suspend irrigation)

OFF = sensor disabled (will allow watering)

3. Use the **▶** and **◀** buttons to scroll to the next desired station for Sensor Override.
4. Rotate the dial back to the Run position when finished programming all Sensor Overrides.

## CYCLE AND SOAK

The Cycle and Soak feature splits a station's run time into cyclical, shorter watering durations. This feature is useful when applying water to slopes and tight soils because it automatically slows the application of water by irrigating with multiple shorter cycles, as opposed to one long run time. This helps to prevent runoff and excessive watering.

To do this, enter the Cycle time as a fraction of the station's total watering duration and the Soak time as the minimum number of minutes before the next cycle begins. The total number of cycles is calculated by dividing the programmed station run time by the Cycle time.

Consider an example where Station 1 requires 20 minutes of watering. If runoff occurs after 5 minutes yet all water is absorbed into the soil after 10 minutes, the solution is to set a 20-minute Run Time, 5-minute Cycle time, and 10-minute Soak time. This creates four 5-minute watering cycles with 10-minute Soak periods in between.

If other stations are programmed after Station 1, the Cycle and Soak process for Station 1 will finish after all other zones have run. The controller will run Station 1's first cycle, proceed sequentially through the remaining stations, then return to Station 1 to complete its remaining Cycle and Soak schedule.

1. To access the Cycle and Soak menu, begin with the dial in the RUN position. Press and hold the **+** button, turn the dial to the Run Times position, and release the **+** button.
2. Initially, Station 1 will display. To access other stations, press the **▶** or **◀** buttons. Once the desired station is shown, use the **+** and **-** buttons to increase or decrease the Cycle time. Set the Cycle time from 1 minute to 4 hours or OFF if no Cycle and Soak schedule is desired.



Note: When setting both Cycle and Soak times, times less than 1 hour will display in minutes only (e.g., 30). For times greater than 1 hour, the display will change to include hours and minutes (e.g., 2:45).

## DELAY BETWEEN STATIONS

This feature allows the user to program a delay between station activation and shutoff. This is particularly helpful on systems with slow-closing valves, pumps that are operating near maximum flow, and/or alternate water sources with slower recovery, such as wells and water storage tanks.

1. With the dial in the Run position, press and hold the **-** button, turn the dial to the Run Times position, and release the **-** button.
2. The display will show a delay time in seconds, which is default set to 00 seconds. Press the **+** and **-** buttons to increase or decrease the delay times. For any delay time less than 1 minute, the display will show only seconds (e.g., SEC 45). Once you program over 59 seconds, SEC will change to “Hr” and the delay time converts into minutes and hour mode (e.g., Hr 0:30 represents 30 minutes, Hr 2:00 represents 2 hours).
3. The Delay Between Stations feature applies to all stations and can be programmed from 1 second to 10 hours.
4. Rotate the dial back to the Run position when finished programming all Delays Between Stations.



Note: The Master Valve/Pump Start circuit will remain active during the first 15 seconds of any programmed Delay Between Stations to aid in the closing of the valve and to avoid unnecessary cycling of the pump.

## HIDE PROGRAMS

The ICC2 Controller is factory configured with four independent programs (A, B, C, and D) that are utilized when watering multiple different landscapes and plant-type requirements. The controller can be customized to display only the most basic programming, and thus, hide extra programs.

1. With the dial in the Run position, press and hold the **-** button, turn the dial to the Water Days position, and release the **-** button.
2. Use the **+** and **-** buttons to change between either 4 or 1. The default setting is set to 4, which shows all 4 programs available and all 8 start times available. Switching to a setting of 1 will show only program A and only 1 start time.
3. Rotate the dial back to the Run position when finished programming all Hide Programs.

## SOLAR SYNC DELAY

The ICC2 Controller with built-in Solar Sync programming has the ability to delay the automatic, daily update of the Seasonal Adjustment value from Solar Sync for up to 99 days. This option may be advantageous to users who do not want Solar Sync to adjust program run times for a specific period of time (e.g., during an overseeding or overwatering schedule). This function allows the controller to operate with a manually set, fixed Seasonal Adjustment value, at least until the Solar Sync Delay period expires. However, even while Solar Sync Delay is active, the Solar Sync Sensor will continue to gather weather information and calculate the Seasonal Adjust Value; it just won't be applied to the run times. Once the Solar Sync Delay ends, the updated Seasonal Adjust value will be applied.



Note: The Solar Sync Delay feature is only accessible when a Solar Sync Sensor is installed.

1. With the dial in the Run position, press and hold the **+** button, turn the dial to the Solar Sync position, and release the **+** button.
2. The display will show “d:00,” where “d” indicates days and “00” indicates the number of days to be delayed.
3. Press the **+** or **-** buttons to increase or decrease the number of Solar Sync Delay days you desire. Once the correct number of days is displayed, return the dial to the Run position.



Note: The number of days remaining will not be displayed on the Run screen. To check if the Solar Sync Delay feature is active, open the Solar Sync Delay menu and check the number of days shown. If 1 or more days are programmed, then Solar Sync Delay is active, but if 0 days are programmed, then Solar Sync Delay is disabled.



## CLIK DELAY

This feature allows the user to delay programmed watering for a designated period of time AFTER a Klik event occurs. For example, heavy rain is in the forecast and you won't need to irrigate for multiple days after the storm. The Klik Delay can postpone automatic programming from 1-7 days after the Klik Sensor is triggered. At the end of the Klik Delay period, the controller will resume normal automatic watering.

1. With the dial in the Run position, press and hold the **+** button, turn the dial to the System Off position, and release the **+** button.
2. The display will show "OFF -" with the dash blinking. Press the **+** or **-** buttons to increase or decrease the number of Klik Delay days. Once the correct number of days is displayed, return the dial to the Run position.
3. After a Klik event ends (e.g., the rain sensor dries out and deactivates the sensor), the Klik Delay feature will become active and will display on the screen for the entire Klik Delay duration.



Note: An active Klik Delay can be canceled at any time by simply turning the dial to the System Off position, waiting for "OFF" to stop blinking, and returning the dial to the Run position. Also, any station that is set with the Programmable Sensor Override feature will operate during a Klik Delay.

## TOTAL RUN TIME

The ICC2 Controller keeps a running total of each program's station run times. This feature provides a quick way to determine how long each program will irrigate.

1. Turn the dial to the Run Times position.
2. From the Station 1 run time, press the **◀** button once to review the total of all run times in the program. You can also view the total run time by pressing the **▶** button once after advancing to the highest station run time.
3. Press the **PRG** button to review total run times of additional programs.

## TEST PROGRAM

The Test Program feature offers users a simplified method for manually starting any or all stations sequentially. This feature operates each station in numerical order, from lowest to highest, and can be started from any specific station. This is beneficial for quick operation of your irrigation system.

1. With the dial in the Run position, press and hold the **PRG** button. Station 1 will appear with a run time flashing (controller default is set to 0:00).
2. Press the **▶** and **◀** buttons to select the station you'd like to run first. Press the **+** and **-** buttons to increase or decrease the station run time (0 to 15 minutes). The run time entered will be applied to all stations.
3. After a two-second pause, the Test Program will begin. You can advance forward and backward through the stations if you don't need a particular zone to run for the full duration.

## EASY RETRIEVE® MEMORY

The ICC2 Controller is capable of saving the preferred watering program into memory for retrieval at a later time. This feature creates a quick way to reset the controller to the original programmed watering schedule, and it's particularly beneficial when overwriting any unwanted changes to the current program.

1. With the dial in the Run position, press and hold the **+** and **PRG** buttons simultaneously. Once three dashes appear on the screen, release the **+** and **PRG** buttons. The symbol will scroll left to right across the display indicating the program is being saved into memory. The display will show DONE once saved, and it will then revert back to the time-of-day display.
2. To retrieve a program that was previously saved into memory, leave the dial in the Run position and press and hold the **-** and **PRG** buttons simultaneously. Once the same three dashes appear on the screen, release the **-** and **PRG** buttons. The symbol will scroll right to left across the display indicating the program is being loaded from memory. The display will show DONE once loaded, and it will then revert back to the time-of-day display.



### TOTAL RESET

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The Total Reset feature will erase all of the controller's memory and set everything back to factory presets. Once you perform a Total Reset, all programming will be completely erased, including any Easy Retrieve programming that may have been saved. This feature is typically utilized when you need to reprogram the controller from the beginning or if the controller is not responding to any commands.

1. Press and hold the **PRG** button.
2. Press and release the "Reset" button.
3. Continue to hold the **PRG** button until the word DONE is displayed on the screen.

### QUICKCHECK™ TECHNOLOGY

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This circuit diagnostic procedure can quickly identify wiring shorts commonly caused by faulty solenoids and poor or incorrect wire splices. QuickCheck is an efficient and effective way to diagnose problems in the field, instead of physically checking each wiring circuit for potential problems.

1. To initiate the QuickCheck test procedure, press the **+**, **-**, **▶**, and **◀** buttons simultaneously. The display will show all icons on the screen.
2. Press the **+** button to begin the diagnostics. The controller will then search all stations to detect a high current path through the station terminals. When a field wiring short is detected, an ERR message preceded by the station number will flash momentarily on the display. The test will continue checking the remaining stations for faults and, once completed, will return to automatic watering mode.

### RUN PROGRAM (ONE-TOUCH MANUAL START)

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The ICC2 Controller is also capable of activating an entire program without using the dial. This option is great for a quick cycle when extra watering is needed or if you would like to scroll through the stations to inspect your system. The Run Program feature differs from the Test Program feature by allowing you to select any of the four automatic programs to run the existing run times.

1. With the dial in the Run position, press and hold the **▶** button for two seconds then release.
2. This manual one-touch start option automatically defaults to program A. You can select any of the four programs (A, B, C, or D) by pressing the **PRG** button.
3. The station number will flash on the display. Press the **▶** and **◀** buttons to scroll through the stations and the **+** and **-** to adjust the preexisting run times (0 minutes to 12 hours). Once you've selected the desired station to run first, the program will begin automatically. You can advance forward and backward through the stations if you don't need a particular zone to run for the full duration.

Symptom	Possible Cause	Solution
Display shows a station number with "ERR"	Faulty station solenoid or short in the field wiring	Check field wiring and solenoids for continuity and replace any faulty solenoids.
Display shows "P ERR"	Short in the pump start / master valve wiring; faulty pump start or master valve solenoid	Check the master valve or pump start wires for continuity, and replace or repair any shorted wires. Ensure all wire connections are secure and watertight. Check pump start relay specifications for proper installation.
Display shows "SP ERR"	SmartPort® Wiring Harness error; electrical noise is present near connection to remote or other SmartPort device.	Move connections away from electrical noise source. Check the SmartPort Wiring Harness, and verify the red wire is attached to the AC 1 terminal and the blue wire to the REM terminal; if the SmartPort Wiring Harness is extended from the controller, ensure shielded cable is used (ROAM-SCWH).
Display shows "NO SS"	Solar Sync Sensor was removed or has a wiring issue.	If sensor was removed, press "Reset" button on the back of the panel to clear. For wiring issues, check field wiring.
Display shows "H [station #] Err"	High-flow alarm detected for indicated station	Possible overflow condition. Check pipes, connections, valves, and sprinklers for breaks, leaks, or stuck valves.
Display shows "L [station #] Err"	Low-flow alarm detected for indicated station	Possible underflow condition. Check station valve operation, solenoid wires, connections, system pressurization, and master valve or pump relay functionality.
Display shows "FL Err"	Total overflow threshold has been exceeded	Likely a catastrophic overflow (e.g., mainline break). Inspect all system pipes, connections, valves, and sprinklers.
Display shows "NO AC"	The controller is not receiving AC power	Check fuse/breaker and incoming power supply to the controller; ensure transformer is wired and installed properly.
Frozen or garbled display	A power surge might have occurred.	Press "Reset" button on back of controller panel.
Controller does not recognize correct station count	Module installed incorrectly, "Reset" button was not pressed after installation of new module, or module is faulty	Verify modules are seated properly, locked into position, and oriented correctly in the proper slots. Remember to press the "Reset" button on the back of the control panel after adding a new module.
Display shows program is running, but watering is not occurring	Problem in field wiring, faulty solenoid(s) or valve(s), or no water pressure to system	Check field wiring and solenoids for continuity, replace any faulty solenoids, and/or repair any poor wire connections. Check valves for debris, body breaks, diaphragm tears, and proper operation. Ensure the water source is open and pressurized.
Rain-Clik or other Clik Sensor does not stop irrigation	Jumper wire is still connected, sensor switch is in "Bypass" position, or incompatible sensor was installed	Remember to remove red jumper wire for weather sensor connection. Ensure sensor switch is set to "Active." Verify a normally closed (NC) sensor is installed.
Controller seems to water continuously	Too many start times programmed	Only one start time is required to operate all stations within a program sequentially (you do not need to set a start time for each individual station). Remove all unnecessary start times.
Controller not running automatic programming	Possible programming error(s), sensor is activated and interrupting circuit, Programmable Off is in effect, or time/date errors	Verify all programs, days to water, start times, and station run times are programmed correctly. Check display for sensor fault notification. Check display for OFF days. Check controller time, date, and AM/PM/24-hour mode settings.

### FCC NOTICE

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This 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, you are encouraged to try to correct the interference by taking one or 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 of which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by Hunter Industries could void the user's authority to operate this device. If necessary, consult a representative of Hunter Industries Inc. or an experienced radio/television technician for additional suggestions.



Helping our customers succeed is what drives us. While our passion for innovation and engineering is built into everything we do, it is our commitment to exceptional support that we hope will keep you in the Hunter family of customers for years to come.

A handwritten signature in black ink, appearing to read "G. R. Hunter", with a long horizontal stroke extending to the right.

**Gregory R. Hunter, CEO of Hunter Industries**

A handwritten signature in black ink, appearing to read "Denise S. Mullikin", with a stylized, cursive script.

**Denise Mullikin, President, Landscape Irrigation and Outdoor Lighting**

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