

A Controller Link, connected to a standard irrigation controller, automatically manages the watering schedule. The valve common from the host controller is wired through the Controller Link. Watering cycles programmed in the host controller will either water or be interrupted based on evaporation, rainfall and user settings. When the Controller Link Program Start Sensor detects a cycle start, the Controller Link will either enable or interrupt the valve common circuit.

Warnings

A Controller Link must be installed in compliance with local electrical codes.

To prevent electrical shock or damage, make sure that all supply power is OFF to the Controller Link, irrigation controller, or any equipment being connected. Electrical shock can cause severe injury or death.

Power the Controller Link using 20 to 30 Volts AC. DO NOT connect it to 120 volts or greater.

A ground wire must be connected to the Controller Link for electrical surge, and personal protection.

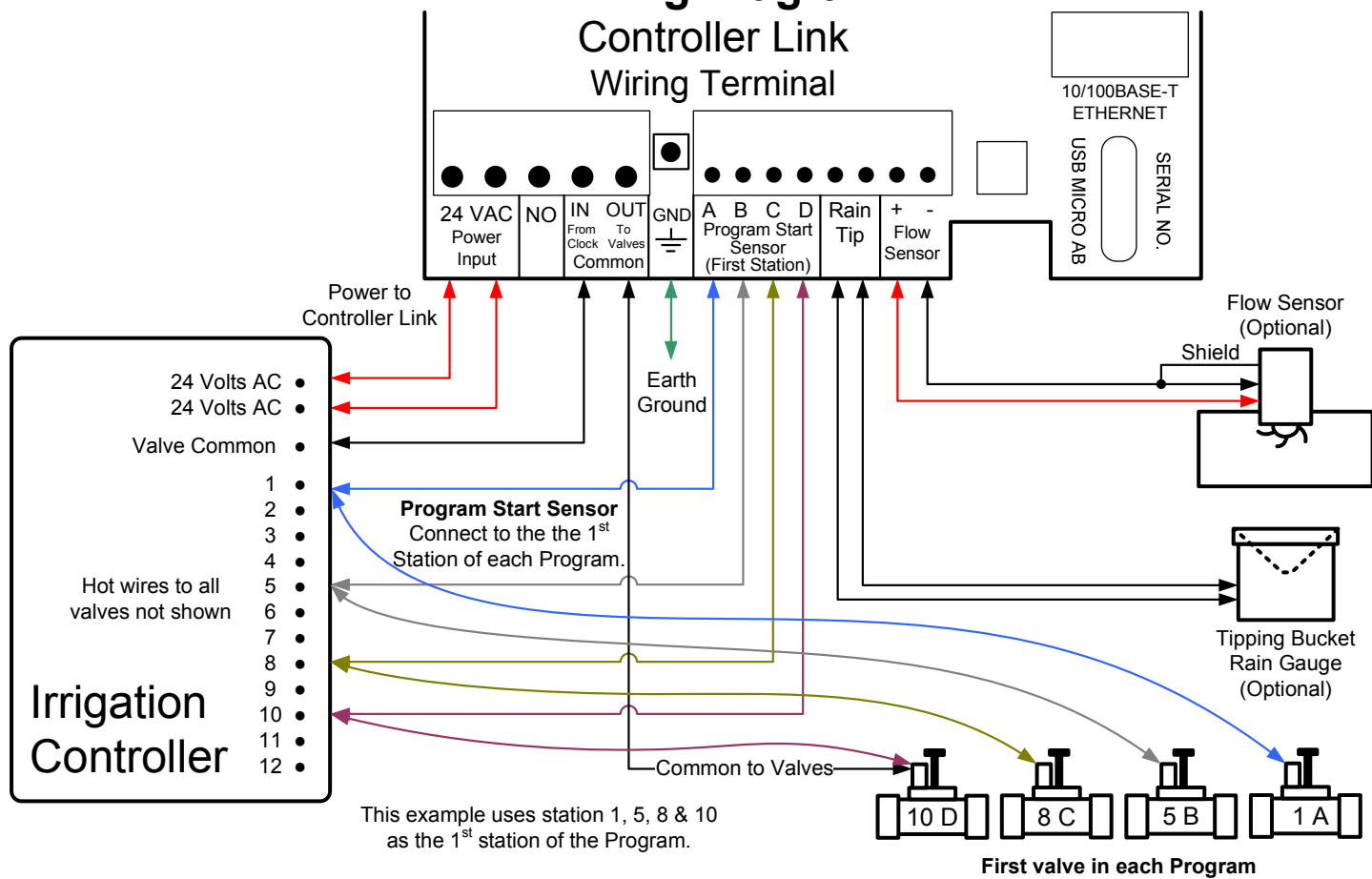
Setup Requirements

- Only one station may operate at a time. Program cycles cannot overlap.
- Stations within a cycle must run with no more than 15 minute gap between stations.
- Cycle and soak should be implemented by using additional Program Start Times. (Do not use the Cycle and Soak feature in the host controller.)
- If a Program cycle has only one station and multiple start times, there must be at least 1 minute between the end of a cycle and the beginning of the next cycle.
- A Controller Link can manage the valve common of only one irrigation controller.

Installation Steps

1. Mount Controller Link near the host irrigation controller in a vertical upright position.
2. Connect the Controller Link ground terminal to earth ground.
3. The valve common going to the valves must be wired through the Controller Link.
 - a. Connect the valve common from the host controller to the Controller Link Common IN terminal.
 - b. Connect the common wire going to the valves to the Controller Link Common OUT terminal.
4. Identify the first station in each program, as programmed in the host controller. Connect a wire from the first station of the host controller assigned to Program A to the Program A Start Sensor terminal in the Controller Link. Repeat this step for Program B, C & D.
5. Install and connect optional accessories per instructions included with the Tipping Rain Gauge and Flow Sensor.
6. Connect 24 volt AC power from the host controller to the Controller Link 24VAC Power Input.
7. Test the Common interrupt. Turn on a valve using the host irrigation controller. Verify valve is on. At the Controller Link press Override then ▼ twice to Prevent Irrigation. The valve should go off.
8. Determine the Internet connection method:
 - a. Wired Ethernet – Connect an RJ45 Cat 5 Patch cable to between the Controller Link Ethernet connection and a local Router or Switch connected to the Internet.
 - b. Wi-Fi – Controller Link must be installed within operating range of a local broadcasting Wi-Fi Access Point that supports 802.11 b/g, with WEP, WPA-PSK or WPA2-PSK authentication.

Wiring Diagram



Programming Steps

Once the Controller Link has been mounted, wired, Internet connection complete and powered up you need to enter key settings. From the Home Screen press ► (right arrow button). This will take you to the main menu. Press ► again to select Settings. Press ► again to enter the guided Setup. Complete the six steps on the Setup Menu. Press ► to advance through the steps and use ▲ or ▼ to make setting selections.

1. **Internet** – Follow the screen prompts to select Wi-Fi or Wired Ethernet. Continue to press Next ► and enter the necessary settings on each screen.
2. **Weather Station** – Begin by selecting the Country, State, then Area. Select the weather station from the list of available weather stations in the area. Any requirements to secure data service will be explained on the screen.
3. **Rain Source** – Select the source of rainfall measurements.
4. **Irrigation Setup** –
 - a. The 1st step is to check the Program Wiring. While on this screen manually activate the stations in each program using the host controller. When the first station comes on for each program the Controller Link will report the Program is Watering; it will also report electrical current is activating a valve. With a station on, the current should be “detected,” if not, check wiring.
 - b. Follow the guided programming steps for each Program.
1. **Weather Interrupts** – Review the default settings and edit as desired.
2. **Flow Sensor** – If a Flow Sensor is connected, follow the on-screen guide to enter the settings.

Once settings are complete, go ◀ Back to the Main Menu and press ▲ to get to Moisture Levels. Adjust current moisture level based on site conditions. If watering is needed, set the Moisture Level to “0”. If watering is not needed increase the Moisture Level.