Connecting Your HydraWise Controller

Thank you for purchasing a HydraWise controller.

Your HydraWise controller is easy to install and set up. There are a few simple rules to follow to ensure that your controller will give faultless service.

Further helpful information is available online at http://hydrawise.com/support.

Planning

Planning is an important step in the successful installation of your HydraWise Controller and the reliable operation of your irrigation system.

❶ Solenoid valve location

Solenoids should be grouped together where possible so that control wiring and system management can be simplified. If a flow meter is being installed, a master solenoid valve may not be necessary. You should use a manual master shutoff valve instead to allow system maintenance.

❷ Flow meter location

Flow meters are installed between the water supply and the master valve. To avoid false alerts, there should be no water taps or other uncontrolled water use on the downstream side of the flow meter.

Where all the solenoids connected to the controller are not grouped together, it may be necessary to install more than one flow meter. Each controller can support up to 2 flow meters.

Where the flow meter is installed, do not have 90 degree bends within approx. 300mm (12in) either side of flow meter.

❸ Cables

The size of the cable will be determined by the number of zones or stations. One conductor will be required for each zone plus a common wire for the group of solenoids.

The gauge of multi-core cable will be determined by the total length of cable between the controller and the solenoids. The general rule here is 0.5mm (24GA) wire is good for a run of up to 80M.

❹ Controller location

The HydraWise Controller is designed for installation in a protected location. Outdoor enclosures rated to IP65 are available – contact HydraWise for further information.

🤚 **The chosen location must have WiFi coverage. WiFi coverage can be easily checked using an iPhone or smart phone that has WiFi connectivity or on the Hydrawise unit itself.**

Mains power must be available within 1.5m (5 feet).

Consideration should be given for the cable entry.

Installing

The outdoor installation will be normally be completed first followed by the installation and turn on of the controller.

❶ Solenoid valves

Run a separate multi-core cable for each group of solenoids.

Take one wire from each solenoid, twist together and connect to the common (usually black) wire of the multi-core cable.

🤚 **HydraWise recommends that all connections be soldered and sealed against moisture for long term reliability.**

Connect each of the other individual solenoid connections to a different wire in the cable, solder and seal. Record zones against wire colour.

❷ Flow meter (where purchased)

🤚 **HydraWise strongly recomends that all flow meter connections be soldered and sealed against moisture for reliable, long term operation.**

The color of the wires on the flow meter is different depending on the model you have.

Connect the wires as follows to your Hydrawise controller –

1" Model

Wire Color	Sensor Terminal Block
White	0V
Blue	Sensor 1, 2, 3 or 4
Red	Not used

1¼" Model

Wire Color	Sensor Terminal Block
White	0V
Brown	Sensor 1, 2, 3 or 4

❸ Rain sensor (where fitted)

🤚 **Use a separate, 2 core cable to connect the HydraWise Controller to the rain sensor.**

Fix the rain sensor in position and terminate connections as per rain sensor instructions.

❹ Controller

Mount controller in a suitable location. The controller can be mounted on a DIN rail or using the four holes in each corner of the unit.

❺ Connect solenoids

Connect the common wire from the multi-core cable (usually black) to either one of the two terminals on the controller marked "COMMON".

Connect each of the other solenoid wires to one of the "ZONE" inputs. The order is not particularly important as they will be assigned an order later when setting up the controller.

If a master valve is installed this can be connected any spare zone as any of the zones can be assigned as a master valve output.

❼ Connect rain sensor

To connect a rain sensor wire the unit as follows –

Rain Sensor Wire	Connect to Sensor Terminal Block
1st wire	Sensor 1, 2, 3 or 4
2nd wire	0V

❽ Connect plug pack and turn on

Use the plug pack supplied and connect the wires to the Green AC terminal blocks on the unit.

Polarity is not important.

Your HydraWise Controller will take about 10 seconds to power up and will then search for local WiFi access points. This takes a further 20 seconds.

❾ Connect to WiFi network

Highlight the required wireless network from the list using the ↑ and ↓ navigation keys and press the ✅ (OK) button.

✋ **If your network is not listed then check that the unit is within wireless range. Contact HydraWise for options if the controller is out of network range.**

Enter the password for the wireless network using the on-screen keyboard and the navigation keys.

When the password has been entered press the ✅ (OK) button.

When connected successfully, your controller will show "Connected" on the screen. This takes about 30 seconds.

You can now go to the HydraWise web site to complete configuration.

Configuration

❶ Register for an account

If you have not already done so, you should register for an account at the HydraWise web site. Go to http://hydrawise.com/try-now and register for an account.

❷ Log into your account

Log into your account. If this is the first time that you have logged in you will be guided through a setup wizard to help you with initial configuration of your controller.

❸ Link your controller to your account

You must link your Hydrawise unit to your Hydrawise web site account before it will start watering.

Go to the Dashboard on your Hydrawise web site account. Click on the Settings icon on the blue 'Watering Schedule' bar and then click the **Link to controller** button.
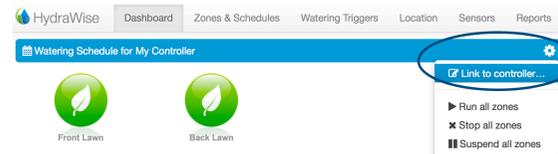
Enter the serial number of your controller. The serial number can be found on the rear of the unit, on the

outside packaging or on the Controller Status screen in the HydraWise unit.

You have now successfully finished installation.

Testing

❶ From controller front panel

Use the 🔄 Mode button to switch between controller setting mode and irrigation zones mode.

In irrigation mode use the ← and → keys to move to the screen which shows your required zone. When desired zone is displayed, press ✅ . The zone will switch on immediately.

A second press of ✅ will turn the zone off.

❷ From the Internet

On the HydraWise dashboard, hover over the zone you wish to operate. When the popup appears, click ▶ and select the time to run.

If you want to run all zones in sequence, hover over the controller status icon. When the popup appears, click ▶ and select the time to run each zone.

❸ From a smart phone App

Free applications, or apps can be downloaded for Apple iPhone and Android smart phones. See the HydraWise web site for details.

Select the zone to be tested and press ▶ then select time to run. The selected zone will run in about 10 seconds.

Troubleshooting

Detailed troubleshooting notes can be found on the Hydrawise web site http://hydrawise.com/support.