

Flow Meter Installation Quick Start Guide

In this Quick Start Guide, you will learn how to install and configure your flow meter. For support of HydraWise™ cloud software or help with your HydraWise account, visit the support section [here](#) ^[1]. For specification information, refer to the section [here](#) ^[2].

The flow meter consists of two parts:

1. Flowmeter body: The flowmeter body contains an analog dial for manual readings as follows. Your flow meter will have 3 wires protruding from the body. The wires need to be connected to the sensor inputs on the controller for readings in the software application. In all models, only 2 wires (blue and white) are used.

2. Adapter: Each flow meter has an adapter to allow connection to your irrigation system.

DIAL MARKING	MEASUREMENT UNIT
X0.01	0.1 gallon
X1	1 gallon
X10	10 gallons
X100	100 gallons

3. Flowmeter location: Flow meters are installed between the master valve and zone valves. To avoid false alerts, there should be no water taps or other uncontrolled water use on the downstream side of the flow meter. If all solenoids connected to the controller are not grouped together, it may be necessary to install more than one flow meter. For proper installation and optimal water flow, use the chart below when determining pipe length. The pipe bringing water into the flow meter needs to be 10 times longer than the width of the pipe. The pipe carrying water away from the meter needs to be 5 times the width of the pipe.

PIPE	10X-BEFORE	5X-AFTER
¾"	7½"	3¾"
1"	10"	5"
1½"	15"	7½"
2"	20"	10"

4. Cable (shielded direct-burial cable must be used): Two-wire cable is required. The cable gauge is determined by the total length of cable between the controller and the flow meter. The cable should consist of 2 dedicated wires and must not be in the same conduit or cable bunch as the solenoid wires. Do not share the common wire of the solenoids with the common of the sensors. If desired, the flex cable can be used to run inside the conduit. That flex cable measures ¼" BSP, which also fits ¼" NPT.

Flow Meter Cable Length Chart

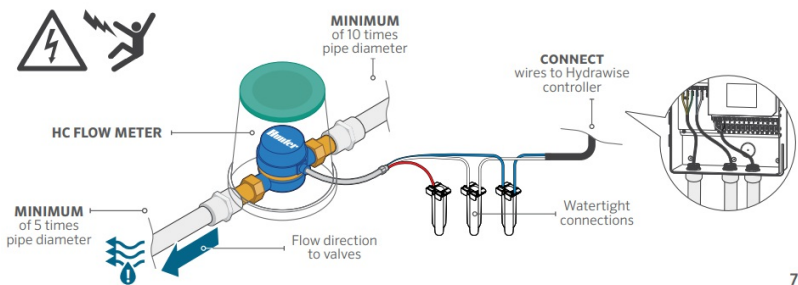
WIRE SIZE	MAX LENGTH
Gauge	Feet
20	240
18	1,000

IMPORTANT: Shielded direct-burial cable is commonly available. Manufacturers include Paige Electric and Regency Wire.

The following instructions assume you have already

installed your Hydrawise controller

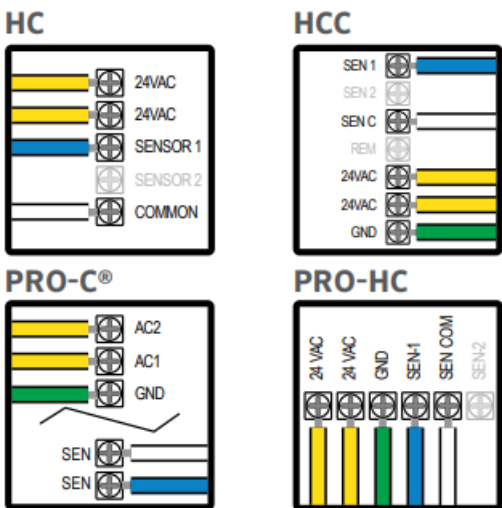
1. Flowmeter body: The flow meter has a marking on the body indicating the direction of water flow. Installation of the flow meter must be in the correct orientation with water flowing in the direction of the arrow on the flow meter body. All HC Flow Meters must be installed horizontally with the dial facing upward.



2. Connect flowmeter wire: Two-wire cable is required. The cable required to connect your flow meter must be dedicated to the flow meter and not shared with the common wire of the valves or other sensors. The cable gauge is determined by the total length of cable between the controller and the flow meter. The general rule is that 0.5 mm (20GA) wire is good for a run of up to 240'. Connect the wires to your Hydrawise controller.

WIRE COLOR	SENSOR TERMINAL BLOCK
White	Common
Blue	Sen 1 or Sen 2
Red	Not used: Wires should be capped with waterproof splice

* Shield and bare wire should be connected to the controller ground terminal if available.



IMPORTANT: All wire connections should be done using waterproof connectors, such as 3M 316IR or 3M DBY.

Use your Hydrowise account to complete your flow meter configuration.

- 1. **Log in to your account:** Enter your login information.
- 2. **Create a flow sensor:** It is important that you select the correct flow meter when configuring your Hydrowise app. Choosing the wrong model may cause the Hydrowise controller to create false alerts in the software.

HC FLOW METER SELECTION CHART		
METER SIZE	DESCRIPTION	U.S. GALLON PULSE RATE
¾"	¾" flow meter	1 pulse per 0.1 gallon
1"	1" flow meter	1 pulse per 1 gallon
1½"	1½" flow meter	1 pulse per 1 gallon
2"	2" flow meter	1 pulse per 1 gallon

- 3. **Assign zones to the flow sensor:** Refer to this [support article](#) ^[3] for setup information.