

# Flow Meter Installation Tips

Flow meters are supplied with [detailed installation instructions](#) [1].

The flow meter wires need to be cabled back to the controller and connected to the **Sensor** inputs on the controller. See chart below for wiring standard Hydrawise flow meters (Sizes include 3/4", 1", 1.5", 2")

FLOW METER WIRE	SCREW TERMINAL	CONTROLLER
BLUE	SEN 1, 2	HC
BLUE	SEN 1, 2	PRO-HC
BLUE	SEN	HPC-FP
WHITE	COM	HC
WHITE	SEN COM	PRO-HC
WHITE	SEN	HPC-FP
RED	Not Used, Cap off	N/A

The tips below include all the necessary key points of the install to avoid any false alerts or readings.

Installation Steps	Description
Flow Meter Body	Flow meters are designed to be installed <b>horizontally only</b> , with the dial facing up. Not vertically. Analog dial for manual readings in U.S. are shown in US gallons (Int. customers the dial reads in Cubic Meters). Units can be changed in App to gallons or liters.
Adapter	Brass unions included to fit your irrigation system.
	Install between the <b>master valve</b> and zone valves. Meter should be installed 10 times pipe diameter before and 5

Entry Location	<p>times after with straight pipe and no fittings. See example:</p> <table border="1" data-bbox="873 201 1507 478"> <thead> <tr> <th>Pipe</th> <th>10x-Before</th> <th>5x-After</th> </tr> </thead> <tbody> <tr> <td>3/4"</td> <td>7.5"</td> <td>3.75"</td> </tr> <tr> <td>1"</td> <td>10"</td> <td>5"</td> </tr> <tr> <td>1.5"</td> <td>15"</td> <td>7.5"</td> </tr> <tr> <td>2"</td> <td>20"</td> <td>10"</td> </tr> </tbody> </table>	Pipe	10x-Before	5x-After	3/4"	7.5"	3.75"	1"	10"	5"	1.5"	15"	7.5"	2"	20"	10"
Pipe	10x-Before	5x-After														
3/4"	7.5"	3.75"														
1"	10"	5"														
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2"	20"	10"														
Cable used ( <b>shielded cable only</b> )	<p>18 gauge - 1000 foot max Length. <b>Shielded direct burial cable must be used.</b> Cable should consist of two dedicated wires and must not be in the same conduit, cable bundle or trench as the solenoid wires. DO NOT share common wire. Shielded cable is commonly available, here are some manufacturers (<a href="#">Paige</a> [2] &amp; <a href="#">Regency</a> [3]) For additional information on avoiding electrical interference, see below:</p>															
Flow meter body	Arrow indicates direction of flow.															
Wire Connection	Blue/White wire only, <b>red not used.</b> See <a href="#">sensor configuration</a> [4] for more info based on model controller.															
Log in to your account	Enter your <a href="#">login</a> [5] information.															
Create your flow sensor	App will show options for all HC meters.															
Creating Alerts	See link <a href="#">here</a> [6]															
Reading Meter	See link <a href="#">here</a> [7]															
Testing Meter	See link <a href="#">here</a> [8]															

## Avoid Electrical Interference

- Always use shielded cable, between the controller and the HC Flow Meter.
- At the controller end, using the shield (foil wrap) and the bare wire connect them to the controller GND terminal (not required for HC controllers).
- Do not connect the other end of the Shield or the bare wire to the Earth or a grounding stake
- Use Waterproof wire connectors at the flow meter, such as the [3M-DBOB](#) [9].
- Shielded cable is commonly available, here are some manufacturers. [Paige](#) [2] & [Regency](#) [3]

In the event you continue to receive bad readings or false alerts, please contact us [support@hydrawise.com](mailto:support@hydrawise.com) <sup>[10]</sup>