

Hunter®

 **Hydrawise™ Ready**
IRRIGATION CONTROLLERS

Hydrawise Software/App Owner's Manual



hydrawise.com

Table of Contents

| | |
|---------------------------------------------------------------|---|
| Table of Contents | 2 |
| Wireless HC Flow Meter - System Overview and Operations | 3 |
| Wireless HC Flow Meter - Transmitter Installation | 4 |
| Wireless HC Flow Meter - Pairing the Transmitter and Receiver | 7 |
| Wireless HC Flow Meter - Low-Battery Indication (Transmitter) | 7 |
| Wireless HC Flow Meter - System Considerations (Dip Switches) | 8 |

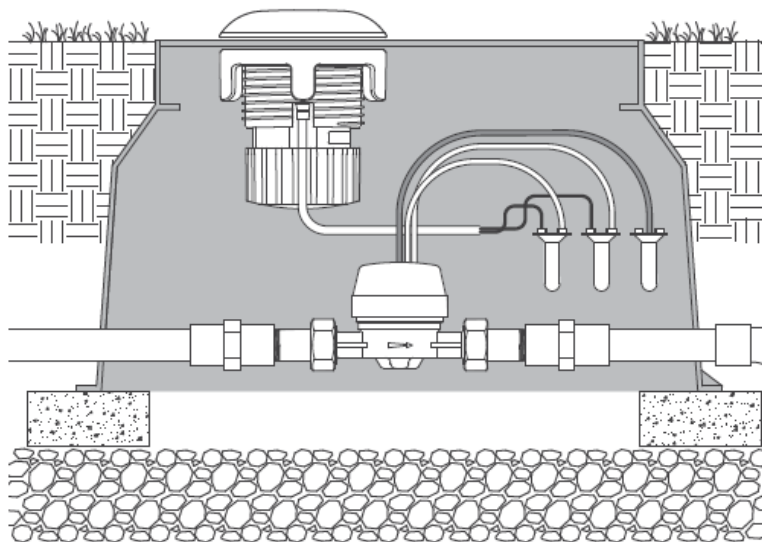
Wireless HC Flow Meter - System Overview and Operations

The Wireless HC Flow Communication Kit (P/N: WHCFLOW) pairs with any HC Flow Meter* to provide wireless flow monitoring capabilities with Hydrowise® enabled controllers. (*meter sold separately)

Compatible flow meters and controllers include:

- HC-075-FLOW, HC-100-FLOW, HC-150-FLOW, HC-200-FLOW
- HC, HPC, Pro-HC, and HCC Controllers
- The Wireless HC Flow Receiver comes with just over 3' of wire for connection to the controller.
- The maximum distance extending the receiver from the controller or the transmitter from the flow sensor is 50'.
- The kit provides 500' (152 m) line-of-sight communication from transmitter to receiver. Flow data is transmitted wirelessly every 5 seconds, indicated by a blinking green LED on the transmitter and receiver.
- The Wireless HC Flow Receiver is powered by the 24 VAC terminals within the controller. The receiver can be extended using a standard 18 AWG wire up to 25' from the controller.
The Wireless HC Flow Transmitter is battery-powered (3 AA) and has two wires coming from it for connection to the HC Flow Meter.
- The HC Flow Meter requires 4-5 VDC for power and is rated up to 24 VDC.
- The sensor operation is a simple reed-switch contact closure that generates a pulse every time the contact closes, which is then converted to a flow rate based on the pre-calibrated pulse rate (1 pulse = 1 gallon).

Transmitter and HC Flow Meter Installation Details

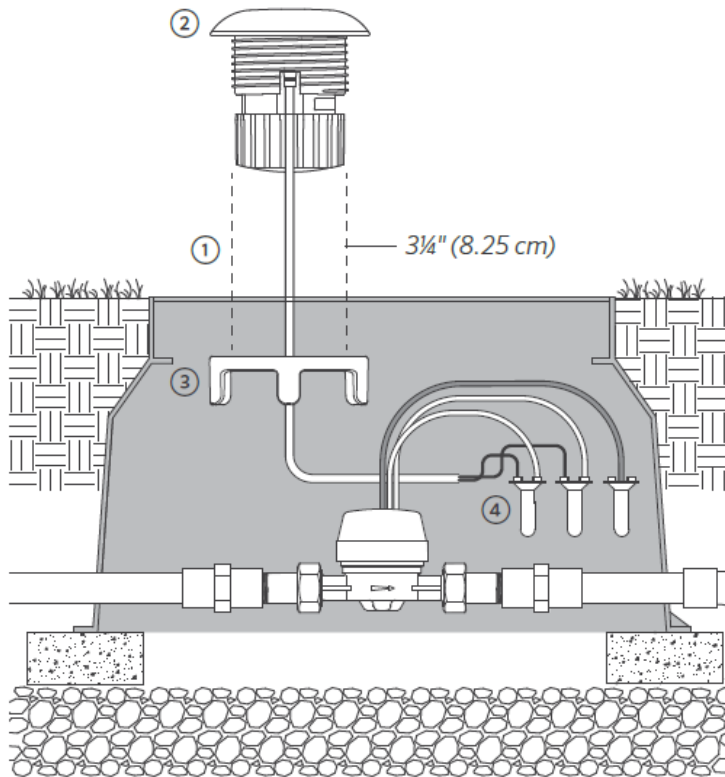


Wireless HC Flow Meter - Transmitter Installation

Transmitter Installation

1. Using a hole saw, cut a 3 $\frac{1}{4}$ " (8.25 cm) diameter hole in the valve box lid.
2. Unthread the transmitter retainer nut and feed the transmitter through the hole in the valve box lid so the mushroom cap is exposed.
3. Secure the transmitter in place by threading the transmitter retainer nut clockwise until snug against the valve box lid ribs.
4. Using the included waterproof connectors, splice the white wire from the transmitter to the white wire from the HC Flow Meter. Then splice the transmitter blue wire to the HC Flow Meter blue wire.

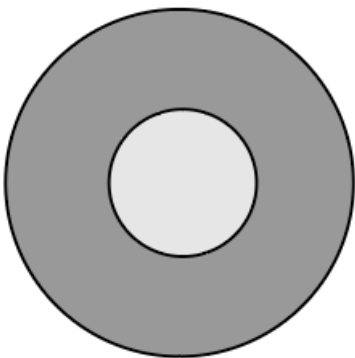
NOTE: Cap the red wire from the flow meter with a waterproof splice. This wire is not used.

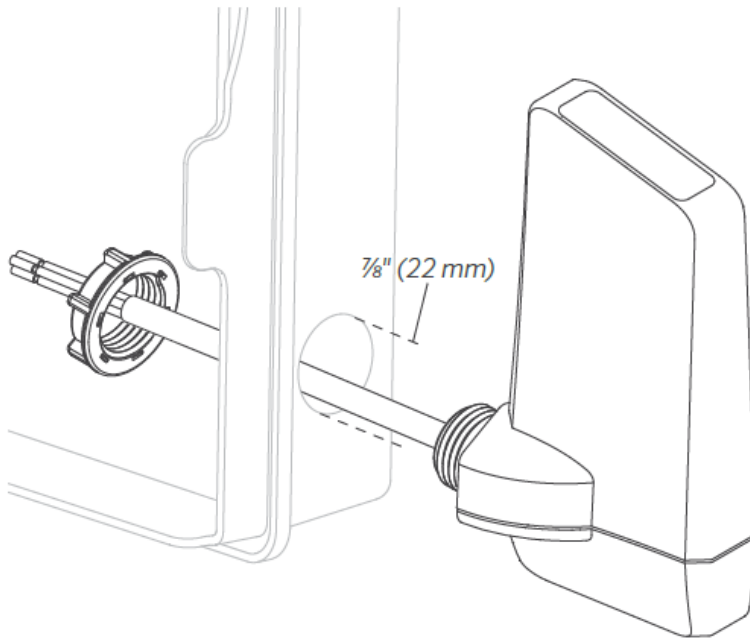


Receiver Installation

- The Wireless HC Flow Receiver mounts to and is powered by its host controller.
- For best results, mount the receiver through one of the side knockouts on the controller. Use a $\frac{7}{8}$ " (22 mm) hole saw to remove the knockout. Feed the wires and threaded nipple through the knockout into the controller, and secure in place with the receiver retaining nut.

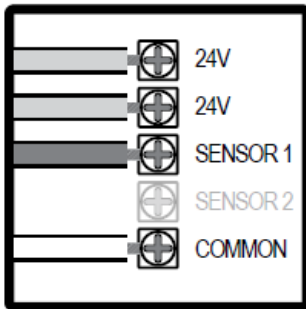
IMPORTANT: When installing the receiver on a PRO-HC model, use the included washer for a flush mount on the $\frac{7}{8}$ " side mount location.



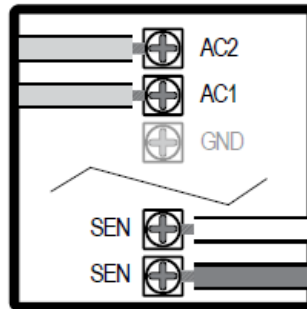


- Connect the two yellow wires to either 24 VAC terminals.
- Connect the white and blue wires to the sensor terminals.

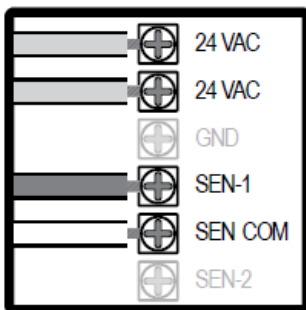
HC



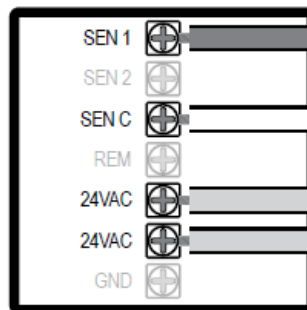
HPC



Pro-HC



HCC

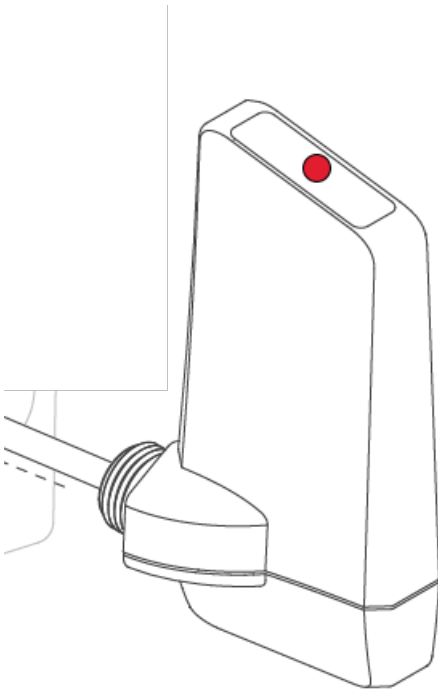


Wireless HC Flow Meter - Pairing the Transmitter and Receiver

The transmitter and receiver are preconfigured for wireless communication right out of the box. After applying power to either the transmitter or receiver, wait a minimum of 10 seconds for the power-up sequence to complete. During this time, there will be one or more green **LED** blinks before the unit is ready for operation. When flow is occurring, the transmitter will transmit flow sensor data at a maximum rate (depending on flow) of once every 5 seconds. The receiver **LED** will flash green at the same rate to indicate that flow is occurring.

Wireless HC Flow Meter - Low-Battery Indication (Transmitter)

The receiver LED will flash red twice every 3 seconds to indicate a low or discharged battery. This battery status update will occur only during flow conditions.

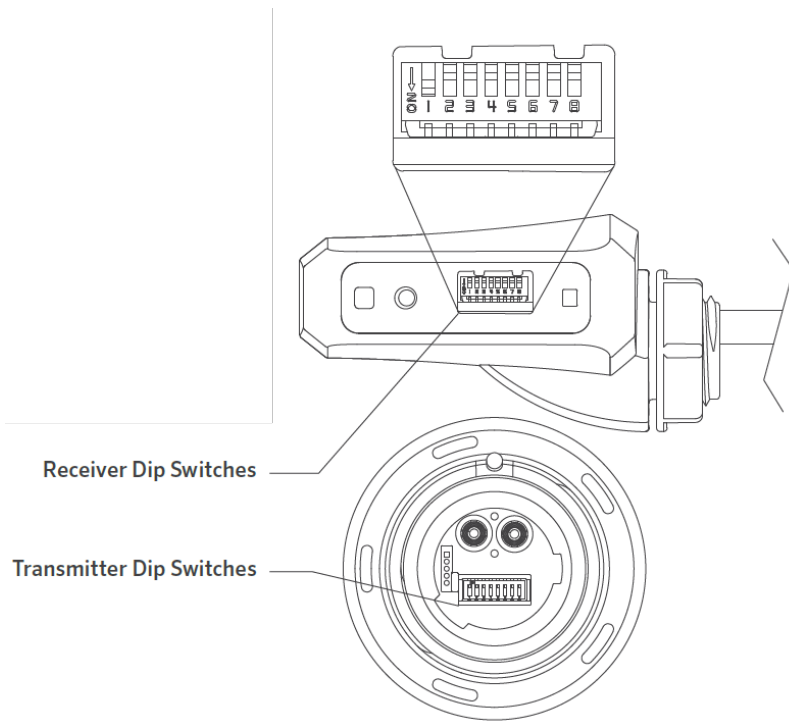


Wireless HC Flow Meter - System Considerations (Dip Switches)

When multiple controllers and sensors are within close proximity of one another, users should change the radio channels to prevent cross-talk between the transmitters and receivers. There are eight dip switch positions within both the transmitter and receiver, labeled as 1–8. The factory default setting for both the transmitter and receiver has dip switch position 1 set to ON, and all other dip switches set to OFF.

The 8 dipswitches are used to change the channel within the 900 MHz range used in the WHCFLOW radio. The switch can be at any setting but the receiver and transmitter would need to match (e.g; receiver 2-ON and transmitter 2-ON).

To change the channel, simply change the dip switch positions. Example: Using a flathead screwdriver, flip dip switch position 1 to OFF, and flip switch position 2 to ON (do this for both the transmitter and receiver).



| Transmitter Dip Switch Setting (ON) | Receiver Dip Switch Setting (ON) |
|-------------------------------------|----------------------------------|
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