



How to Wire and Program a Flow Rate Sensor on a Prominent 5 Series Controller

Materials Needed:

- One Flow Rate Sensor
- Wiring Tools (Wire strippers, screwdrivers)
- **Electrical Wire**
- Safety Equipment (Gloves, safety goggles)

Safety Precautions:

- Power Shutdown: Ensure all power to the pool chemical controller is turned off.
- Wear Safety Gear: Use Gloves and Safety Goggles to prevent Injuries.

Step 1: Prior to Installation

Ensure the controller is un-plugged from the electrical outlet, and is completely powered down.

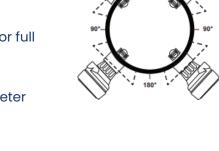
1. Inspect flow rate sensor for any damage.

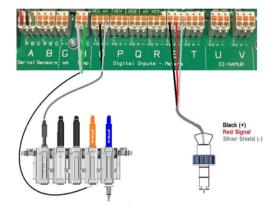
Step 2: Choose the Correct Mounting Orientation

- 1. Horizontal Pipe Runs:
 - a. Mount the sensor at a 45° angle from vertical on the side of the pipe to maintain consistent, reliable flow detection.
- 2. Vertical Pipe Runs:
 - a. Mount in any orientation, but ensure water is flowing upward for full pipe and steady flow.
- 3. Follow Straight-Run Requirements:
 - a. 10x pipe diameter of straight pipe upstream and 5x pipe diameter downstream.
 - b. Avoid elbows, tees, or valves directly near the sensor.

Step 3: Wire the Sensor to the Controller

- 1. Ensure Wires inside of Flow Rate Sensor are secure.
- 2. Strip ends of the sensor wire.
- 3. Secure wires in any Digital Input O-T
 - a. Black 1
 - b. Red 2
 - c. Silver 3
- 4. Place cover on controller and power on.











Contact set

✓ No

Contact set

Turbine meter

U:Contact set

Descriptor

Disable

Sensor Type



Step 4: Set Up the Flow Total Contact

- 1. Open the controller on Vivopoint, and click the gear Icon at the top left, and scroll down to "Enable IO".
- 2. Drop down and Select what contact (P-V) you landed the sensor on and click Submit.
- **3.** Exit the menu, and click on the contact you enabled on the far right under "Contacts".
- **4.** Go to "Setup" in the Contact menu options, Rename Sensor to Flow Total and select "Turbine Meter".
 - a. Make sure Decimals are set to "0"
 - b. Keep G as Unit of measurement
- **5.** Calculate the K Factor using Pipe Size, Type, and Fitting type with the K Factor Calculator below and enter it under "K Factor":
 - a. https://www.gfpstools.com/k-factor-tool/index.html
 - b. Leave Compensation as None

Step 5: Set up the Flow Rate Contact

- 1. From the Enable IO page from before, Enable "M" and hit Submit.
- 2. Click on the contact "M".
- Go to "Configure" in the menu options, and select source as your Flow Total.
- 4. Go to "Setup" in the menu options.
 - a. Set Display Units as "GPM".
 - b. Set Decimal Digits to "0".
- **5.** Adjust Alarms to match your normal flow rates (Every body of water is different).

Setup Descriptor Flow GPM Display Units(UOM) Decimal digits O Reset Submit

Step 6: Contact Support to get Flow Rate Set-Up on Vivopoint

- 1. Call Support at 888-702-8486
 - a. If any further assistance/troubleshooting is needed, feel free to contact Support as well.





