

Liquid Flow Meter - Plastic 1/2" NPS Threaded

PRODUCT ID: 828

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[DESCRIPTION](#)

[TECHNICAL DETAILS](#)



DESCRIPTION

Measure liquid/water flow for your solar, computer cooling, or gardening project using this handy basic flow meter. This sensor sits in line with your water line, and uses a pinwheel sensor to measure how much liquid has moved through it. The pinwheel has a little magnet attached, and there's a hall effect magnetic sensor on the other side of the plastic tube that can measure how many spins the pinwheel has made through the plastic wall. This method allows the sensor to stay safe and dry.

The sensor comes with three wires: red (5-24VDC power), black (ground) and yellow (Hall effect pulse output). By counting the pulses from the output of the sensor, you can easily track fluid movement: each pulse is approximately 2.25 milliliters. Note this isn't a precision sensor, and the pulse rate does vary a bit depending on the flow rate, fluid pressure and sensor orientation. It will need careful calibration if better than 10% precision is required. However, it's great for basic measurement tasks!

[We have an example Arduino sketch that can be used to quickly test the sensor](#) - it will calculate the approximate quantity of fluid in liters and display on an LCD or the serial monitor.

TECHNICAL DETAILS

Electrical:

- Working Voltage: 5 to 18VDC
- Max current draw: 15mA @ 5V
- Working Flow Rate: 1 to 30 Liters/Minute
- Working Temperature range: -25 to 80°C
- Working Humidity Range: 35%-80% RH
- Maximum water pressure: 2.0 MPa
- Output duty cycle: 50% +/-10%
- Output rise time: 0.04us
- Output fall time: 0.18us
- Flow rate pulse characteristics: $\text{Frequency (Hz)} = 7.5 * \text{Flow rate (L/min)}$
- Pulses per Liter: 450
- Durability: minimum 300,000 cycles

Mechanical:

- 1/2" NPS nominal pipe connections, 0.78" outer diameter, 1/2" of thread
- Size: 2.5" x 1.4" x 1.4"



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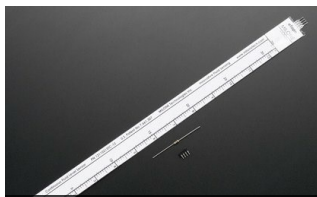
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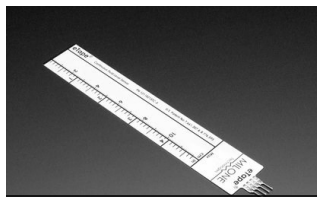
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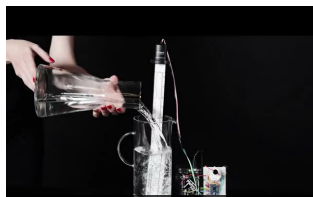
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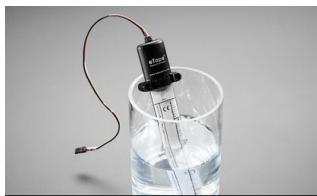
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