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SENSORS / LIQUID/FLOW / LIQUID FLOW METER - BRASS 1/2" NOMINAL THREADED



### Liquid Flow Meter -Brass 1/2" Nominal Threaded

PRODUCT ID: 833

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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 sit 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 brass tube that can measure how many spins the pinwheel has made through the metal wall. This method allows the sensor to stay safe and dry.

The sensor comes with three wires: red (5-18VDC 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 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, its great for basic measurement tasks!

Comes with a 3-pin JST SM connector, you can use these cables to make a quick attachment

We have an example Arduino sketch that can be used to quickly test the sensor - it will calculate

# TECHNICAL DETAILS

#### Electrical:

- Working Voltage: 5 to 18VDC
- Max current draw: 15mA @ 5V
- Working Flow Rate: 1 to 30 Liters/Minute
- Working Temperature range: -20°C to 80°C
- Working Humidity Range: 35%-80% RH
- Maximum water pressure: 1.75 MPa
- Output duty cycle: 50% +-10%
- Output rise time: 0.04us
- Output fall time: 0.18us
- Flow rate pulse characteristics: Frequency (Hz) = 8.1 \* Flow rate (L/min) 3
- Pulses per Liter: 485
- Durability: minimum 300,000 cycles

#### Mechanical:

- 1/2" nominal pipe connections, non-tapered, 0.78" outer diameter, 1/2" of thread
- The input of these adapters is 1/2" NPT aka National Pipe Thread (tapered) and the output
- is 1/2" BSPP aka British Standard Parallel Pipe (non-tapered).
- Size: 2.65" x 1.0" x 1.4"



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"Collaborative production is simple: no one person can take credit for what gets created, and the project could not come into being without the participation of many" - Clay Shirky



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