





Register to Get 

Shipping Coupon





0



LOGIN/SIGN UP

HOME

COMMUNITY NEW

FORUM


WIKI

BLOG

PRODUCT LINES ▾


EDUCATION

\$USD



WISH LIST

[Sensors](#) / [Liquid Sensors](#) / Gravity: Digital Water Flow Sensor For Arduino - 1/8"




## Gravity: Digital Water Flow Sensor For Arduino - 1/8"

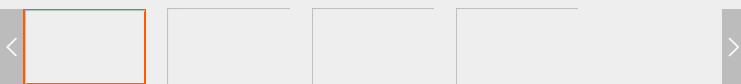
SKU:SEN0216 Brand:Other Reward Points: 89

\* Model: Water Flow Sensor 1/8" Water Flow Sensor 1/2"

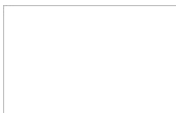
Quantity: -  +

ADD TO CART



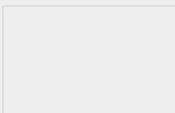


### Frequently Bought Together



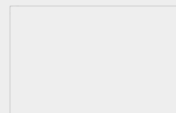
+

<



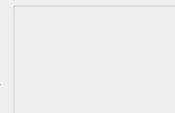
+

<



+


<



+

<

=



You have chosen:0

Total amount:

BUY IT NOW

## INTRODUCTION

The Water Flow sensor measures the rate of a liquid flowing through it. The YF-S401 water flow sensor consists of a plastic valve body, flow rotor and hall effect sensor. It is usually used at the inlet end to detect the amount of flow. When liquid flows through the sensor, a magnetic rotor will rotate and the rate of rotation will vary with the rate of flow. The hall effect sensor will then output a pulse width signal. Connect it to a microcontroller and you can monitor multiple devices such as your coffee maker, sprinkler or anything else, and control the water flow rate to suit your needs!

Gravity: Arduino Digital Water Flow Sensor - 1/8

Note:

- \*A 6 mm hose is recommended
- \*Avoid unit contact with corrosive chemicals
- \*The unit must be installed vertically, tilted no more than 5 degrees
- \*Liquid temperature should be less than 120 C to avoid damage to unit

## SPECIFICATION

Downloaded from [Arrow.com](#)

- Inner Diameter: 4 mm
- Outside diameter: 7 mm
- Proof Water Pressure: <0.8 MPa
- Water Flow Range: 0.3-6 L/min
- Voltage Range: 5~12 V
- Operating Current: 15 mA (DC 5V)
- Insulation Resistance: >100 MΩ
- Accuracy: ±5% (0.3-3L/min)
- The Output Pulse High Level: >4.5 VDC (DC input voltage 5 V)
- The Output Pulse Low Level: <0.5 VDC (DC input voltage 5 V)
- Output Pulse Duty Ratio: 50% ± 10%
- Water-flow Formula: 1L = 5880 square waves
- Working Humidity Range: 35% ~ 90% RH (no frost)
- Dimension: 58\*35\*26 mm/2.28\*1.37\*1.02 inches
- Weight: 30g

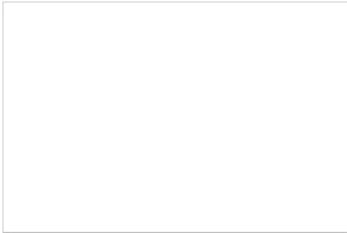
## DOCUMENTS

- [Product WIKI](#)
- [More Documents](#)

## SHIPPING LIST

- Gravity - Water Flow Sensor - 1/8" x1

## TUTORIAL



Build KnowFlow: automatic water...

[Arduino](#) [Gravity](#) [IoT](#)

2017-09-04 07:36:53

## REVIEW

## FAQ

9 Comments

DFRobot

Disqus' Privacy Policy

Login

Recommend

Tweet

Share

Sort by Best

Join the discussion...

- JEEVAN KUMAR VATTURI • a year ago

Hello, please how do i code two flowsensors so that i can initialize a condition that if the flow rate is different i can know for leakage detection

http://bigbelectronics.in/product.php?product=water-flow-sensor


^ • Reply • Share >

↓
- CEMAL YUCESoy • 2 years ago

What is the pulse signal NPN or PNP?

^ • Reply • Share >

↓




**DFRobot Support**
Mod
→
CEMAL10CE80Y • 2 years ago

Since the sensor is enclosed, you are advised to check this document, <https://5.imimg.com/data5/V...>

^
•
Reply
•
Share
>

↓




**Dali Izzi**
• 2 years ago

code plz ,d can i use it with this, pompe ! <https://www.amazon.fr/pompe...>

^
•
Reply
•
Share
>

↓




**DFRobot Support**
Mod
→
Dali Izzi • 2 years ago

No you can't.

^
•
Reply
•
Share
>

↓




**julio.j4pa**
• 3 years ago

Hi, I want to know to best Accuracy I need a pump that under 3L/min and under 0.8 MPa. Right?

^
•
Reply
•
Share
>

↓




**DFRobot Support**
Mod
→
julio.j4pa • 3 years ago

Yes, the  $\pm 5\%$  accuracy is fit for 0.3-3L/min flow speed, and the water pressure is less than 0.8 MPa.

^
•
Reply
•
Share
>

↓




**Eric Pascual**
• 3 years ago

Is this sensor able to measure flow in any direction or only on the arrow's one ?

^
•
Reply
•
Share
>

↓



**DFRobot Support**
Mod
→
Eric Pascual • 3 years ago

Only in arrow's direction.

^
•
Reply
•
Share
>

↓

### Sign up for exclusive offers!

→

### Like us on





