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YF-B7 Water Flow Sensor with Temperature Sensor - Brass - G1/2"





- Availability: Directly available from warehouse in Eindhoven
- SKU: 003500

€7.00

Ex NL BTW/VAT (21%): €5.79

20+ pieces in stock



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Description Reviews Downloads

With these sensors you can easily measure the flow and temperature of liquids (water).

The output of the sensor gives 11 pulses per second with a duty cycle of approximately 50% for every liter of liquid that passes through it per minute: Q [L/min] = f_{pulse}[Hz]/11.

Specifications:

- · Water flow sensor:
 - Supply voltage: 5-18V DC
 - Signal voltage: 4.7V (with 5V DC power supply)
 - Connector: JST-SM 3p female
 - Pulse frequency per L/min: 11Hz*
 - Duty cycle pulse: 50% ±10%
 - Measuring range: 1-25L/min
 - Accuracy: ±3%*
- Temperature sensor:
 - Type: NTC

- Resistance: 50KΩ
- Beta value: 3950
- Connector: JST-SM 2p female
- Thread: M8
- Water connection: G1/2"
- Maximum water pressure: 17.5bar
- Working temperature: 1-100°C
- Suitable liquids: Water**
- Material: Brass
- Dimensions: See images

Pinout (water flow sensor):

- Red: Vcc/plus (supply voltage)
- Black: GND/min
- Yellow: Signal

Package contents:

- 1x YF-B7 Water Flow Sensor
- 1x NTC 50K Temperature Sensor

See the following page for a tutorial with a similar water flow sensor:

How to Use Water Flow Sensor - Arduino Tutorial (http://www.instructables.com/id/How-to-Use-Water-Flow-Sensor-Arduino-Tutorial/)

Modify the following piece of code around line 17:

float calibrationFactor = 4.5;

To:

float calibrationFactor = 11;

*Note: This is a factory specification under specific circumstances. Should the sensor be used in a situation where accuracy is required, it is recommended to calibrate the sensor in that specific setup.

**Note: We cannot give any warranty if this product is used with any liquid other than clean drinking water.

Note: The liquid can only flow in one direction, this is indicated by an arrow.

If you have a question or problem regarding a product, please contact us by using one of the buttons below.

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WARRANTY AND PROBLEMS(https://www.tinytronics.nl/en/warranty-and-problems)

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