## **SEN-HZ21WA Flowmeter**







**SEN-HZ21WA Flowmeter** can be used to accurately measure liquid volume and rate of flow flowing through it. It outputs digital pulses at a frequency in proportion to the rate of flow. Accumulated number of pulses, on the other hand, gives an accurate measure of the liquid volume. Compatible in all gizDuino boards and MCUs.

## **General Specifications:**

Input supply voltage: 4.5 - 18VDC
Operation Pressure: 1.75MPA Maximum
Flow Rate: 1 - 30 LPM
Output: 5V logic

Pages 1 of 5 pages



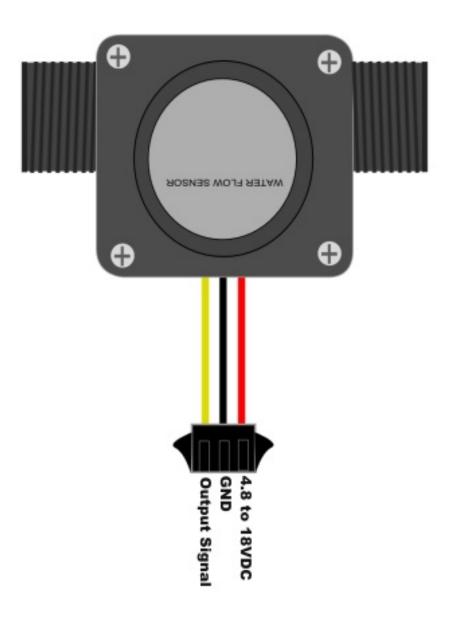


Figure 1: SEN-HZ21WA Flowmeter



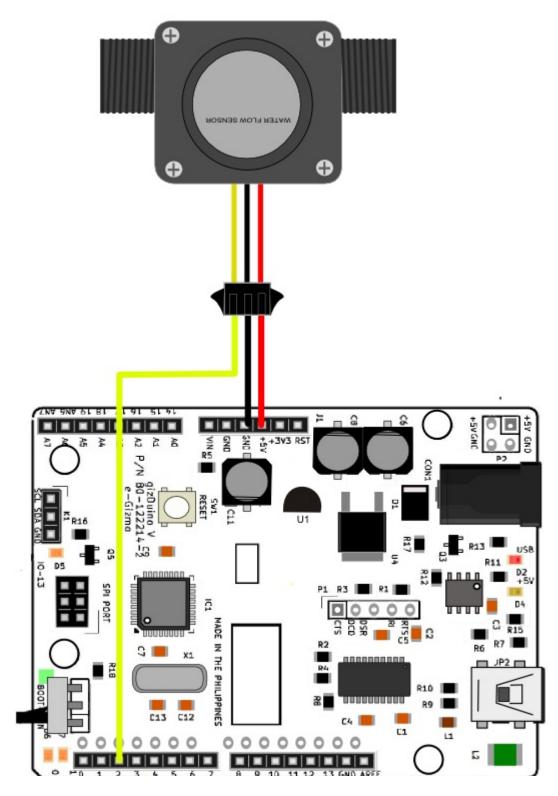


Figure 2. Sample Applications



```
e-Gizmo SEN-HZ21WA Flowmeter
Sample Codes
Reads the Digital Output on pin 5 and prints the result to
the serial monitor.
by
e-Gizmo Mechatronix Central
November 26, 2014
http://www.e-gizmo.com
int FLOW_PIN = 2;
double FLOW RATE;
volatile int COUNT;
// the setup routine runs once when you press reset:
void setup() {
 // initialize serial communication at 9600 bits per second:
 Serial.begin(9600);
 pinMode(FLOW PIN, INPUT);
 attachInterrupt(0, FLOW, RISING);
// the loop routine runs over and over again forever:
void loop() {
 COUNT = 0:
                // Reset the counter
 interrupts(); //Enables interrupts on the Arduino
 delay (1000); //Wait 1 second
 noInterrupts(); //Disable the interrupts on the Arduino
 //Start the math
 FLOW RATE = (COUNT * 2.25);
                                     //Take counted pulses in the last second and multiply by 2.25mL
 FLOW RATE = FLOW RATE * 60;
                                        //Convert seconds to minutes, giving you mL / Minute
 FLOW_RATE = FLOW_RATE / 1000;
                                         //Convert mL to Liters, giving you Liters / Minute
 Serial.println(FLOW_RATE);
                                   //Print the variable flowRate to Serial
void FLOW()
  COUNT++; //Every time this function is called, increment "count" by 1
}
```



