```
/*
============================================================
RAIN GAUGE
============================================================
.011 inches of rain or 0.03 cm, according to datasheet.
************************************************************************/
#define PIN_RAINGUAGE  3     // Digital port 3 pwm




float numbuckettip = 0;
float rainAmount = 0.0;
float rainRate = 0.0;



void setup() {
   Serial.begin(9600);

   pinMode(PIN_RAINGUAGE, INPUT);
   digitalWrite(PIN_RAINGUAGE, HIGH);
   attachInterrupt(1, countRainmeter, FALLING);
}

void loop() {


}


// Interrupt handler for raingauge. Called each time the reed
// switch triggers (one tip of bucket).

void countRainmeter() {
static unsigned long lastmillis = 0;
unsigned long m = millis();
 if (m - lastmillis < 200){
// ignore interrupt: probably a bounce problem
  }
  else{
   numbuckettip++;
   rainAmount = numbuckettip*0.011*2.54;

   Serial.print("RAIN: ");
  Serial.print( rainAmount,2);
  Serial.println(" cm");
 // Serial.println(m);
  }
  lastmillis = m;
}
```