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Basic Aquatic Shield – Testprogramma voor DHT 11 sensor

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/**
Testroutine 1 geschreven door tomvanloon2 at hotmail.com
( D7 verbonden met DHT 11 sensor )

**/
//
//    FILE: dht11_test.ino
//  AUTHOR: Rob Tillaart
// VERSION: 0.1.01
// PURPOSE: DHT library test sketch for DHT11 && Arduino
//     URL: http://playground.arduino.cc/Main/DHTLib
//
// Released to the public domain
//

#include <dht.h>

dht DHT;

#define DHT11_PIN 7

void setup()
{
  Serial.begin(9600);
  Serial.println("DHT TEST PROGRAM ");
  Serial.print("LIBRARY VERSION: ");
  Serial.println(DHT_LIB_VERSION);
  Serial.println();
  Serial.println("Type,\tstatus,\tHumidity (%),\tTemperature (C)");
}

void loop()
{
  // READ DATA
  Serial.print("DHT11, \t");
  int chk = DHT.read11(DHT11_PIN);
  switch (chk)
  {
    case DHTLIB_OK:
                Serial.print("OK,\t");
                break;
    case DHTLIB_ERROR_CHECKSUM:
                Serial.print("Checksum error,\t");
                break;
    case DHTLIB_ERROR_TIMEOUT:
                Serial.print("Time out error,\t");
                break;
    case DHTLIB_ERROR_CONNECT:
        Serial.print("Connect error,\t");
```

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        break;
    case DHTLIB_ERROR_ACK_L:
        Serial.print("Ack Low error,\t");
        break;
    case DHTLIB_ERROR_ACK_H:
        Serial.print("Ack High error,\t");
        break;
    default:
                Serial.print("Unknown error,\t");
                break;
  }
  // DISPLAY DATA
  Serial.print(DHT.humidity, 1);
  Serial.print(",\t");
  Serial.println(DHT.temperature, 1);

  delay(2000);
}
//
// END OF FILE
//
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```

Source : https://arduino-info.wikispaces.com/DHT11-Humidity-TempSensor

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