
read_temp_ds18b20 §
Run programma
Serial Monitor
#include <OneWire.h>
#include <DallasTemperature.h>
Include Libraries
// Data wire is plugged into pin 3 on the Arduino
#define ONE_WIRE_BUS 3
Definieer de datapin
// Setup a oneWire instance to communicate with any OneWire devices
// (not just Maxim/Dallas temperature ICs)
OneWire oneWire(ONE_WIRE_BUS);
// Pass our oneWire reference to Dallas Temperature.
DallasTemperature sensors(&oneWire);
gebruik libraries
void setup(void)
Setup routine
{
// start serial port
Serial.begin(9600);
Bitrate communicatie met Arduino
Serial.println("Dallas Temperature IC Control Library Demo");
// Start up the library
sensors.begin();
}
void loop()
Herhaal loop; eigenlijke programma
{
// request to all devices on the bus
Serial.print(" Requesting temperatures...");
sensors.requestTemperatures();
Serial.println("DONE");
for (int deviceA = 0; deviceA < 4; deviceA++) {
printTemp(deviceA);
For loop over 4 Temperatuur sensoren
}
delay(500);
Vertraging in de loop in ms; delay hier 0,5 s
}
void printTemp(int adress) {
float TempC = sensors.getTempCByIndex(adress);
String stringone = "TempDevice ";
stringone += adress;
Serial.print(stringone);
Serial.print(" ");
//Serial.print(adress);
Serial.println(TempC);
}
Functie printTemp, die 'loopt' over
digitale adressen vd
4 temperatuur sensoren en
temperatuur van elke sensor print.
Done Saving.
foutmeldingen / status upload.
8
Arduino Uno on /dev/tty.usbmodem1411