**SENSORES SOPORTADOS**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **ID** | **Magnitud** | **Rango** | **Chip** | **Interfaz** | **Conexión** | | **Voltaje** | **Librerías de Arduino necesarias** | **Alternativas** |
| Módulo | Arduino  Uno |
| 0 | Temperatura  (termocupla K) | 0ºC a 800ºC | Max6675 | SPI | GND  Vcc  SPI SCK  SPI SO  CS | GND  5V  6  5  4 | 3-5.5 | max6675.h |  |
| 1:T  2:P | Presión/temperatura | -40ºC a +85ºC  300 hPa a 1100 hPa | Bmp180 | I2c | GND  Vcc  SCL  SDA | GND  5V  A5  A4 | 5 | Wire.h  SFE\_BMP180.h | Bmp280 |
| 3 | Temperatura | -55ºC a +125ºC | Ds18b20 | One-wire | GND  Vcc  Data | GND  5V  12 | 3-5.5 | OneWire.h  DallasTemperature.h | Ds18s20, Ds18s22 |
| 4:T  5:H | Humedad/temperatura | 0ºC a +50ºC  20% RH a 90% RH | Dht11 | Propietario | GND  Vcc  Data | GND  5V  13 | 3.5-5 | DHT.h | Dht22 |
| 6 | Presión (con manguera) | 0 a 40 kPa | HX710 | Propietario | GND  Vcc  SCLK  DOUT | GND  5V  8  7 | 2.6-5.5 | HX711.h |  |
| 7 |  |  |  |  |  |  |  | - | - |
| 8 |  |  |  |  |  |  |  |  |  |
| 9 |  |  |  |  |  |  |  |  |  |
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ASIGNACION DE PINES BASADO EN ARDUINO UNO

A0 entrada analógica

A1

A2

A3

A4 bmp180

A5 bmp180

0 RX

1 TX

2 entrada digital (interrupción externa #1)

3 entrada digital (interrupción externa #2)

4 max6675

5 max6675

6 max6675

7 hx711

8 hx711

9 salida digital (PWM)

10 salida digital (PWM)

11 salida digital (PWM)

12 1-wire

13 dht11