SHT31V01A

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Abstract

SHT31 sensor module which measures relative humidity from 0% to 100% with an accuracy of + / - 2%. Temperature is measured in the range -40 ° C to 125 ° C with a an accuracy of 0.3 ° C.

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SHT31V01A is modul, which is possible to –osadit– with IC SHT30 or SHT31, which can measure relative humidity and temperature with high accuracy and precision. Measuring range of humidity is from 0% to 100%. Temperature is measured in range -40°C to 125 °C. Commucation interface is I2C

1 Technical parameters

Parametr	Value	Note
Relative humidity	0% - $100%$	Accuracy by IO
Temperature	$-40^{\circ}{ m C}$ - $125^{\circ}{ m C}$	Accuracy by IO
Integrated circuit	SHT30, SHT31	
Bus	I2C	
Power	Min 2.4V - max. 5.5V	
Size	9.65×40.13	

2 Construction description

2.1 Introduction

This module is based on IC SHT31 or SHT30 humidity and temperature meter, which allows mesure temperature and relative humidity with high accuracy and precission. Aditional information is possible to find out in official datasheet. Modul contains all requaired components for proprer working.

2.2 Module wiring

3 Assembly and ?? oživení ??

3.1 PCB assembly

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Description	\mathbf{Typ}	Package	Count
J1,J2	CONN1_1	$Straight_1x01$	2
J9,J10,J11,J12,J13	$JUMP_2x1$	$Straight_1x02$	5
M1,M2	HOLE	MountingHole_3mm	2
R1,R2,R5,R6	10k	SMD-0805	4
R3	-	SMD-0805	1
R4	0R	SMD-0805	1
C1	100 nF	SMD-0805	1
U1	SHT31	DFN-8- 1EP_2.4x2.4mm_Pitch0.5mm	1
D1	BZV55C-5,6V	${\bf Diode\text{-}MiniMELF\text{-}Standard}$	1

3.2 ??? Oživení ???

Is needed to make control if there is no short on PCB and if IC is proprly soldered. I2C address of IC is set according to position of 0R resistor. Position of resistor in R4 means 0x44, position R3 means 0x45.

3.3 Program

Example program is included in module folder. To run this example is required to have installed pyMLAB.

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