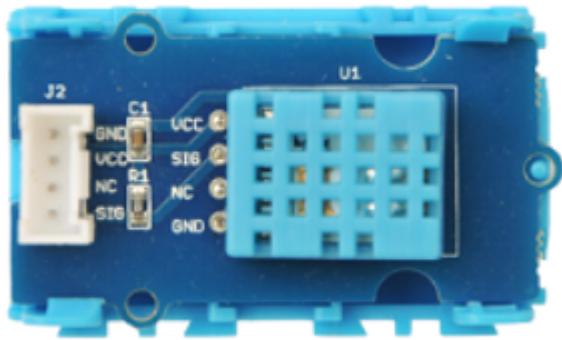


Temperature and humidity sensor



The **iTriangle - Temperature & Humidity sensor** provides a pre-calibrated digital output. A unique capacitive sensor element measures relative humidity and a negative temperature coefficient (NTC) thermistor measures temperature. It has excellent reliability and long term stability. Please note that this sensor will not work for temperatures below zero Celsius.

Features

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- Relative Humidity and temperature measurement
 - Calibrated, full-range temperature compensation
 - Digital signal
 - Long term stability
 - Long transmission distance (>20 m)
 - Low power consumption

Specifications

Items	Min
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PCB Size	2.0 x 4.0 cm
Interface	2.0 mm pitch pin header
IO Structure	SIG, V_{CC} , GND, NC
ROHS	YES

Electronic Characteristics

Items	Conditions	Min	Norm	Max	Unit
V_{CC}	-	3.3	-	5	Volts
Measuring Current Supply	-	1.3	-	2.1	mA
Average Current Supply	-	0.5	-	1.1	mA
Measuring Range	Humidity	20%	-	90%	RH
	Temperature	0	-	50	°C
Accuracy	Humidity	-	-	±5%	RH
	Temperature			±2	°C
Sensitivity	Humidity		-	1%	RH
	Temperature			1	°C
Repeatability	Humidity			±1%	RH
	Temperature			±1	°C
Long-term Stability				±1%	RH/year
Signal Collecting Period			2		s

Revision #6

vytvořené 2 roky nazpět uživatelem [Admin](#)

aktualizováno 2 roky nazpět uživatelem [Jiri Krulis](#)