



Digital Temperature and Humidity Sensor THS 1



Description

THS 1 Digital Sensor converts temperatures between $-40\text{ }^{\circ}\text{C}$ and $+123.8\text{ }^{\circ}\text{C}$ and Relative Humidity from 0 to 100 % to digital words. It provides an accuracy of $\pm 1\text{ }^{\circ}\text{C}$ from $-20\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$ and $\pm 2\text{ \%RH}$ from 10 to 90%. The sensor cannot be addressed by I2C protocol; however, the sensor can be connected to an I2C bus without interference with other devices connected to the bus. The controller must switch between the protocols.

Other serial interface and more sensors in the same bus on request.

Typical Application

General-purpose Temperature and Humidity Monitoring

Features

Operating Voltage Range:	3 V to 5.5 V
Operating Current:	3 mA
Shutdown Current:	3 μA
Interface:	I2C
(Other Interface on request)	
Accuracy:	$\pm 1\text{ }^{\circ}\text{C}$ (max) from $-20\text{ }^{\circ}\text{C}$ to $+70\text{ }^{\circ}\text{C}$
	$\pm 2\text{ \%RH}$ (max) from 10% RH to 90%RH

IP Rating: 65

Dimensions:

Length:	52 mm
Width:	50 mm
Height:	35 mm

Cable Length : 1.5 m

Cable Type: PVC , Screened 4Core, 7/1 0.1mm

Cable Connection Color Code:

Red:	Vcc
Yellow:	SDA
Green:	SCL
Blue:	GND