

## Temperature and humidity sensor TSH200



### Short description

**TSH200** is 1-wire, low cost option for humidity and temperature monitoring. The device integrates basic elements plus signals processing and provide a fully calibrated digital output. A unique capacitive element is used for measuring relative humidity while temperature is measured by a band gap sensor. Both sensors are seamlessly coupled to a 12 bit analog to digital converter. This results in superior signal quality and fast response time.

### Technical parameters

	Temperature		Humidity	
Accuracy	±3.0	%RH	±0.4	°C
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Resolution	0.05	%RH	0.01	°C
Operating Range	0 ÷ 100	%RH	-40 ÷ +85	°C
Long-term drift	< 0.5	%RH/yr	< 0.04	°C/yr
Communication interface	1-Wire			
Length	1 meter			

### Pinout

yellow	Vdd
green	data
brown	GND