

Temperature sensor TST100



Short description

TST100 is a digital sensor, provides a low cost option for temperature measurement. The head of the sensor is made of aluminum, allowing low thermal resistance to the controlled object.

The temperature sensor is delivered with 1 meter cable with soldered wires for direct connection to the screw terminals of controller.

TST100 communicates over a 1-Wire bus. Each sensor has a unique 64-bit serial code.

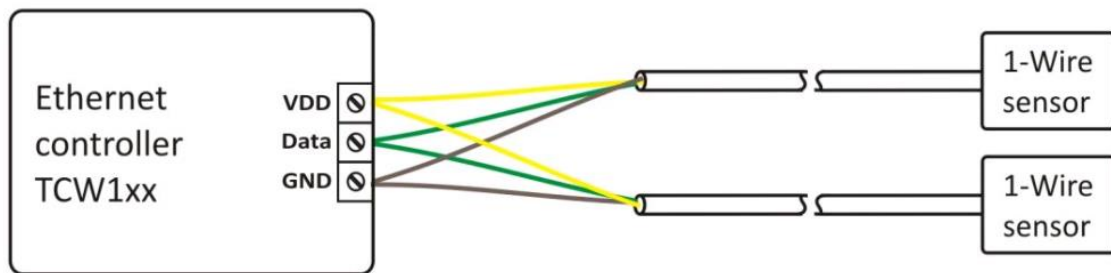
Technical parameters

Temperature range	-40 to +85	°C
Accuracy (-10 ÷ +85°C)	± 0.5	°C
Head's dimensions	8 x 8 x 23	mm
Cable length	1	m
Weight	40	g
Max current consumption	2	mA
Supply voltage (+VDD)	3 to 5.5	VDC
Communication interface	1-Wire	
Cable/length	LIYY/1 meter	

Pinout

Signals	Cable colors
VDD (+3 to +5.5V)	Yellow
Data	Green
GND (Ground)	Brown

Wiring example of two sensors



1-Wire Bus

1-Wire is a registered trademark of Maxim Integrated Products, Inc. It is designed to connect several sensors over a short wiring. The bus carries power and a single data wire. It is not suitable for long distances or environments with EMC interference. We strongly recommend read Maxim's 1-Wire tips at <http://www.maxim-ic.com/app-notes/index.mvp/id/148>.