

Short description

TST100S is 1-Wire temperature sensor.

The temperature sensor integrates a band-gap temperature sensor element plus signals processing and provides a fully calibrated digital output.

The sensor head has a cylindrical shape and is made of stainless steel. It allows direct object assembly. The direct assembly ensures low thermal resistance, respectively fast response of the system.

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



Applications

- Server room and data centers temperature monitoring and logging.
- Temperature monitoring of industrial processes.
- Harsh environmental temperature monitoring.
- Temperature monitoring and logging for mobile operator facilities, vineyards, greenhouses, etc.

Technical parameters

Parameter	Value	Units	Remark
Operating Range	-40 to 85	°C	
Accuracy (max)	±0.5	°C	-10 to 85°C
Accuracy (max)	±2.0	°C	-40 to 85°C
Resolution	0.1	°C	
Supply voltage	3 to 5.5	VDC	
Ingress protection	IP65		
Head's dimensions	Length - 30mm, diameter - 6mm		
Cable length	1 meter		

For pricing or any further information, please contact Omni Instruments Ltd.

Usage

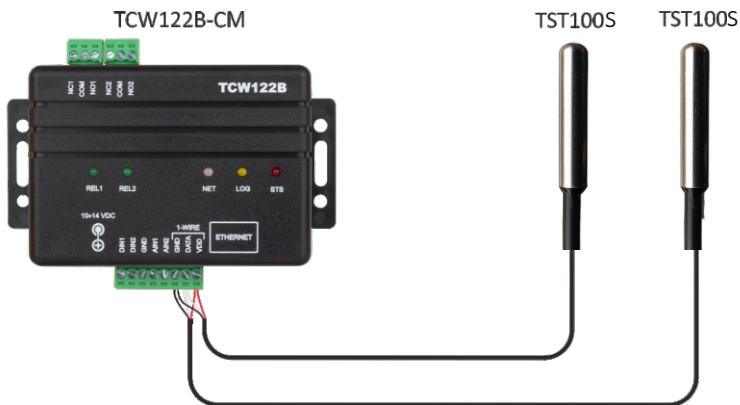
Can be used with following **TERACOM** controllers

- TCW241
- TCW220
- TCG120
- TCW122B-WD
- TCW112-CM
- TCW112-WD
- TCW122B-CM

Pinout

Signals	Cable colors
VDD (+3 to +5.5V)	Red
Data	White
GND (Ground)	Black

Wiring example



1-Wire Bus

1-Wire is a registered trademark of Maxim Integrated Products, Inc. We strongly recommend read Maxim's 1-Wire tips at <http://www.maxim-ic.com/app-notes/index.mvp/id/148>.

For pricing or any further information, please contact Omni Instruments Ltd.