![Teracom control solutions TERACOM logo]

TST100S
1-Wire temperature sensor

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		

Usage
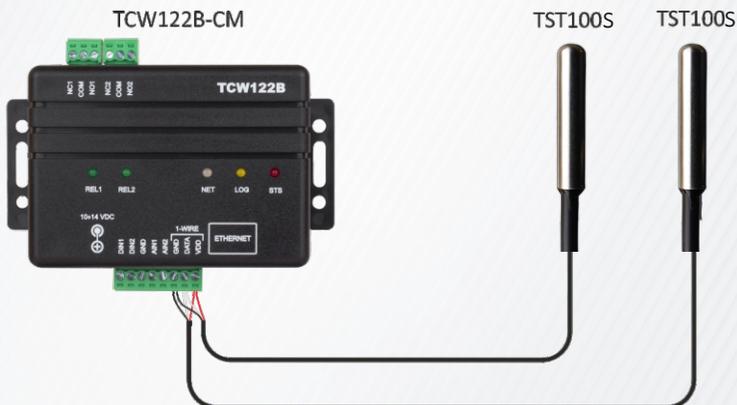
Can be used with following **TERACOM** controllers

- TCW241   - TCW122B-WD

- TCW220   - TCW112-CM

- TCG120   - 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.