



ST-100, ST-110, & ST-200

DESCRIPTION

The ST-100 is a high accuracy thermistor (± 0.1 C from 0 to 70 C), mounted in a waterproof housing, designed for continuous measurement of air, soil, or water.



Features:

The ST-100 has a waterproof housing and is designed for measuring soil and water temperature. The ST-110 minimizes solar load and thermal conduction to accurately measure air temperature. The ST-200 measures delicate or small surfaces with a fast response time.

	ST-100	ST-110	ST-200
Measurement Range	-60 to 80 C		
Measurement Uncertainty	0.1 C (0 to 70 C) 0.2 C (-25 to 0 C) 0.4 C (-50 to -25 C)	0.1 C (0 to 70 C) 0.15 C (-40 to 0 C)	0.2 C (0 to 70 C) 0.4 C (-50 to 0 C)
Measurement Repeatability	Less than 0.05 C	Less than 0.01 C	Less than 0.05 C
Long-term Drift	Less than 0.02 C per year		
Equilibration Time	30 s	4 s	1 s
Self-heating	Less than 0.01 C (typical, assuming pulsed excitation of 2.5 V DC), 0.08 C at 5 C (max. assuming continuous input excitation of 2.5 V DC)		
Operating Environment	-60 to 80 C; 0 to 100 % relative humidity		
Input Voltage Requirement	2.5 V DC excitation (recommended)		
Output Voltage Requirement	0 to 2.5 V DC (assuming input excitation of 2.5 V DC)		
Current Draw	0.1 mA DC at 70 C (max. with steady excitation of 2.5 V DC)		
Dimensions	100 mm length, 6 mm diameter	80 mm length, 4 mm diameter	25 mm length, 1 mm diameter
Mass	60g		
Cable	2 m of shielded, twisted-pair wire; additional cable available; TPR jacket (high water resistance, high UV stability, flexibility in cold conditions); pigtail lead wires		
Warranty	4 years against defects in materials and workmanship		

Contact info



Monitoring MENA

Insight into instrumentations

(962) 5353-2091

PO Box 1100 Salt

Post Code 19110 JORDAN

sales@monitoring-mena.com

www.monitoring-mena.com

This Instrument is manufactured by our principle company

Apogee Instruments - USA