

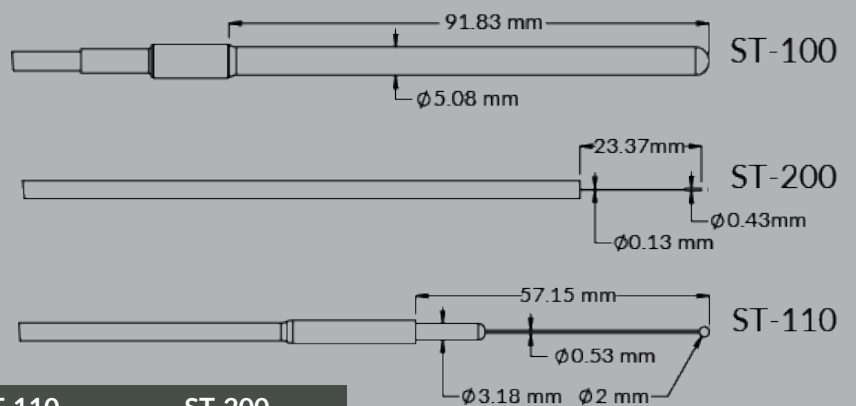


# APOGEE THERMISTORS | ST-100, ST-110, & ST-200

## 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.

## Dimensions



## Product Specifications

	ST-100	ST-110	ST-200
Measurement Range	-50 to 70 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	-50 to 70 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	60 g		
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		

