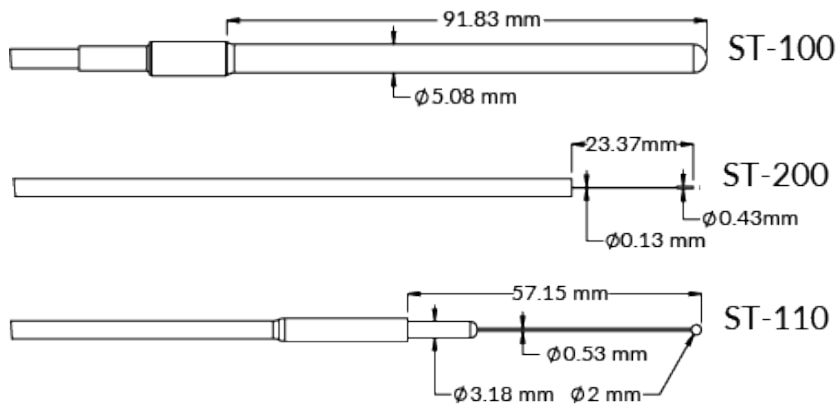
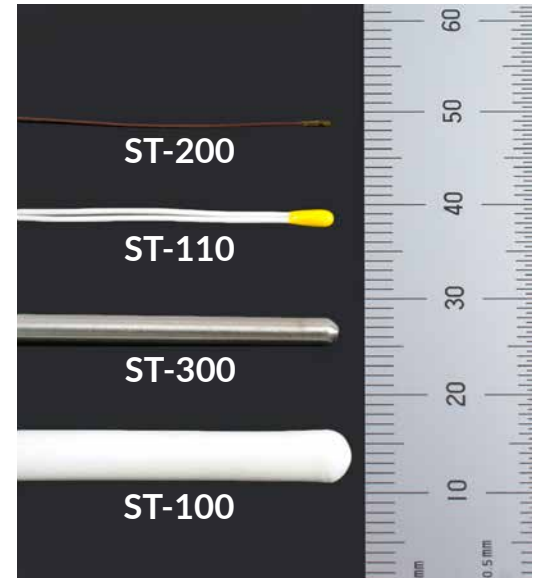


Dimensions



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.



Product Specifications

| | 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 | 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 | | |