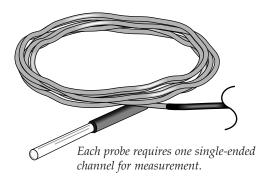
## Temperature Probe for CR200-Series Dataloggers Model 109

The 109 is a rugged, accurate probe that measures air, soil, and water temperature for a variety of applications. It consists of a thermistor encapsulated in an epoxy-filled aluminum housing. The housing protects the thermistor allowing the 109 to be buried or submerged. The 109 measures from -50 $^{\circ}$  to +70 $^{\circ}$ C.



## Sensor Mounts

When exposed to sunlight, the 109 must be housed in a radiation shield. Typically a model 41301 6-plate radiation shield mounted to either a CM6/CM10 tripod or UT10 tower is used.

## **Ordering Information**

109-L User-specified lead length; enter the lead length (in feet) after L. Specify a 6' lead length (109-L6) for a 2-meter mounting height.

## **Specifications**

Weight: 0.3 lbs

Length: 3.125"

Diameter: < 0.375"

Sensor: BetaTherm 10K3A11B Thermistor

Temperature measurement range:  $-50^{\circ}$  to  $+70^{\circ}$ C

Polynomial linearization accuracy: Maximum error is 0.03°C at -50°C

Interchangeability error: Typically <±0.2°C over 0° to 70°C range;

increasing to ±0.5°C at -50°C

Time constant in air: Between 30 and 60 seconds in a wind speed of 5 m sec<sup>-1</sup>

Temperature survival range: -50° to +100°C

