



## Rugged, Accurate, Versatile

Can be used in a variety of applications

### Overview

The 108 is a rugged, accurate probe that measures temperature of air, soil, or water from -5° to +95°C. It easily

interfaces with most Campbell Scientific dataloggers and can be used in a variety of applications.

### Benefits and Features

- › Versatile product—measures air, soil, or water temperature
- › Easy to install or remove
- › Durable
- › Compatible with AM16/32-series multiplexers allowing measurement of multiple sensors

### Technical Description

The 108 consists of a thermistor encapsulated in an epoxy-filled aluminium housing. The housing protects the

thermistor allowing the probe to be buried in soil or submerged in water.

### Specifications

Sensor Description	BetaTherm 100K6A1A Thermistor	Time Constant in Air	30 to 60 s (in a wind speed of 5 m s <sup>-1</sup> )
Tolerance	±0.2°C (over 0° to 70°C range)	Maximum Submergence	15 m (50 ft)
Temperature Measurement Range	-5° to +95°C	Maximum Cable Length	305 m (1000 ft)
Steinhart-Hart Equation Error	≤ ±0.01°C over measurement range (CRBasic data loggers only)	Probe Diameter	0.76 cm (0.3 in.)
Polynomial Linearization Error	Typically < ±0.5°C over -5° to 90°C range (Edlog data loggers only)	Probe Length	10.4 cm (4.1 in.)
		Weight	136 g (5 oz) with 3.05 m (10 ft) cable

For comprehensive details, visit: [www.campbellsci.eu/108](http://www.campbellsci.eu/108) 