



Surface Temperature Sensors

Measuring temperature of structures and plant canopies



Campbell Scientific offers two different technologies to measure surface temperature. Surface contact sensors, such as back-of-module sensors, attach directly to a surface and measure the temperature via physical contact. Infrared temperature sensors are a non-contact means of measuring the surface temperature of an object or surface by sensing the infrared radiation given off by the subject.

	<i>Sensor</i>	<i>Operating Temperature Range</i>	<i>Sensitivity</i>
<p>CS241 PT-1000 Class A, Back-of-Module Temperature Sensor</p>  <p>Popular</p>	Precision 1000 ohm Class A platinum sensing element (PT-1000)	-40° to +150°C	—
<p>CS240 PT-1000 Class A, Back-of-Module Temperature Sensor</p>  <p>Popular</p>	1000 Ω DIN Class A RTD	-40° to +135°C	±0.06 Ω or ±0.15°C
<p>CS240DM PT-1000 Class A, Back-of-Module Temperature Sensor with Digital Modbus RS-485 Output</p>  <p>Popular</p>	Platinum resistive thermometer (PRT)	Sensing Element: -40° to +135°C	—
<p>SI-111SS Infrared Radiometer with Standard Field of View</p>  <p>Popular</p>	Thermopile and thermistor	-55° to +80°C	—

		<i>Sensor</i>	<i>Operating Temperature Range</i>	<i>Sensitivity</i>
110PV-L Surface-Mount Thermistor 		Thermistor with specially designed protective aluminum disk	-40° to +135°C	+1°C
CS220-L Surface-Mount Type E Thermocouple Sensor 		Type E thermocouple	Up to 260°C	+1°C

For comprehensive details, visit: www.campbellsci.com/surface-temperature 



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