

# Infrared Thermocouple

For orders out of the USA add 10% to the list price



SI-211

SI-322

- Measures temperatures of road surfaces; plant canopies; soil, snow, and water surfaces; as well as sky temperature (net longwave radiation)

## Specifications

		<u>Precision (SI-211)</u>	<u>Precision Narrow (SI-322)</u>
<b>Field of view</b>		28° half angle	4° half angle
<b>Mass</b>		320 g	500 g
<b>Dimensions</b>		6 cm long by 2.3 cm dia.	9 cm long by 4.2 cm dia.
<b>Accuracy</b>	-10 to 55 °C	±0.3 °C absolute accuracy	±0.4 °C absolute accuracy
<b>(generic coefficients)</b>		±0.2 °C uniformity	±0.2 °C uniformity
		±0.05 °C repeatability	±0.05 °C repeatability
<b>Output</b>	Target temp.	40 µV per °C difference from sensor body (type-K thermocouple)	
	Sensor body temp.	40 µV per °C difference from datalogger panel (type-K thermocouple)	
<b>Optics</b>		Silicon lens	
<b>Wavelength range</b>		6.5-14 µm	
<b>Response time</b>		< 1 second to changes in target temperature	
<b>Input power</b>		Self-powered	
<b>Operating environment</b>		-55 to 80 °C; 0 to 100 % RH (non-condensing) Water resistant, designed for continuous outdoor use	
<b>Datalogger channels</b>		2 differential (detector and sensor body)	
<b>Cable</b>		4.5 meters twisted, shielded 4 conductor, type-K thermocouple wire. Extra cable \$6.50 per meter.	
<b>Warranty</b>		1 year against defects in materials and workmanship	