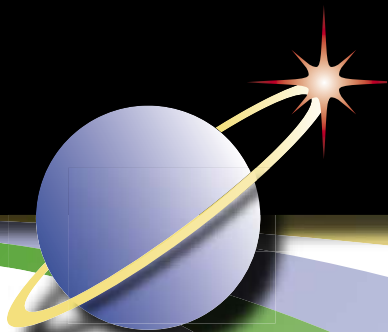


Infrared Thermocouple



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

SI-211

SI-322

Specifications

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