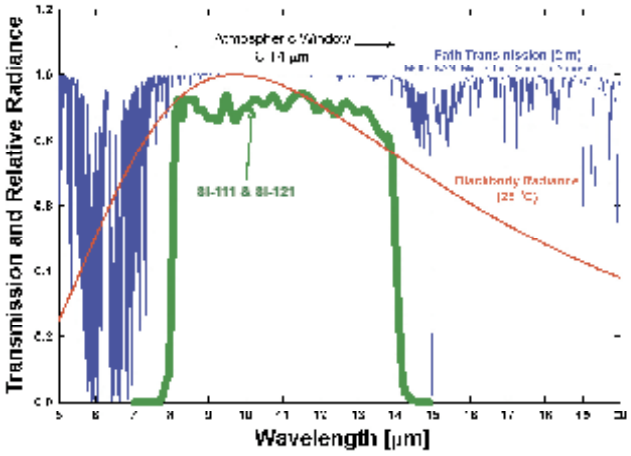
About the Atmospheric Window

The 8-14 µm window of the IRR models corresponds to the atmospheric window. This minimizes the effects of water bands below 8 µm and above 14 µm.



[redacted]

Specifications

[redacted]		[redacted]	[redacted]
Field of view		22° half angle	10° half angle
Output	Target temp.	60 µV per °C difference from sensor body	40 µV per °C difference from sensor body
	[redacted]	0-2500 mV	0-2500 mV
Accuracy	-10 to 65 °C	±0.2 °C absolute accuracy	
		±0.1 °C uniformity	
		±0.05 °C repeatability	
	-40 to 70 °C	±0.5 °C absolute accuracy	
		±0.3 °C uniformity	
		±0.1 °C repeatability and uniformity	
Optics		Germanium lens	
[redacted]		8-14 µm (corresponds to atmospheric window)	
Response time		< 1 second to changes in target temperature	
[redacted]		2.5V excitation	
Operating environment		-55 to 80 °C; 0 to 100 % RH (non-condensing) Water resistant, designed for continuous outdoor use	
[redacted]		1 silicon fet (detector) and 1 single crystal (thermistor)	
Cable		4.5 meters twisted, shielded 4 conductor wire with Santoprene casing. Extra cable $2.95 per meter.	
[redacted]		6 cm long by 2.3 cm diameter	
Mass		190 g	
[redacted]		1 year against defects in materials and workmanship	

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Infrared Radiometer

Owners Manual

Model: MI-110
MI-120

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