

# IRR-P Infrared Radiometer



## **Applications:**

- \* Road surface temperature
- \* Plant canopy temperature for irrigation scheduling and crop water stress
- \* Soil, snow, and water surface temperature

Changes in the sensor body temperature are corrected in software to achieve  $\pm 0.2$  absolute accuracy  
From -15 to +60 .

## **Specifications:**

Field of View ( FOV ) : 22 ° half angle

Outputs : Sensor Body Temperature : 0 – 2000 mV

Target Temperature : 60 uV per difference from sensor body

Accuracy : - 15 to +60 .  $\pm 0.2$  absolute accuracy

$\pm 0.1$  uniformity and repeatability

- 55 to +80 .  $\pm 0.5$  absolute accuracy

$\pm 0.3$  uniformity and repeatability

Optics : Germanium lens

Wavelength Range : 8 – 14 um ( corresponds to atmospheric window )

Response Time : Less than 1 second to changes in target temperature

Input Power: 2.0 V excitation ( for thermistor )

Operating Environment : - 55 to +80 ; 0 – 100% RH ( non-condensing )

High water resistant, designed for continuous outdoor use

Datalogger Channels : One differential ( detector ) and one single ended ( thermistor )

Cable : 4.5 meters twisted, shielded 4 conductor wire with Santoprene casing, ending in pigtail leads

Dimensions : 6 cm long ; 2.3 cm diameter

Weight : 190 g

Warranty : 1 year parts and labor