

Infrared Radiometer Models IRR-P (standard) or IRR-PN (narrow)



Accurate measurement of the leaf-to-air temperature gradient is important for irrigation scheduling and the determination of energy transfer, transpiration rate, and stomatal conductance in both single leaves and plant canopies. This gradient is often less than 1 °C, which means that leaf temperature should be measured to within 0.1 °C. To achieve this accuracy, we measure and correct for changes in the sensor body temperature.

ESPECIFICACIONES

SALIDA	Sensor Body Temperature: 0-2500 mV Target Temperature (IRR-P): 60 μ V per °C Target Temperature (IRR-PN): 40 μ V per °C
PRECISION	0.1 °C with custom calibration
OPTICA	Germanium lens
WAVELENGTH RANGE	8-14 μ m (corresponds to atmospheric window)
FIELD OF VIEW (FOV)	IRR-P: 23.5° half angle IRR-PN: 19° half angle
RESPONSE TIME	Less than 1 second to changes in target temperature
INPUT POWER	2.5 V excitation (for thermistor)
OPERATING ENVIRONMENT	-40 to 60 °C, Calibrated range -15 to 60°, Highly 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.
DIMENSIONES	6 cm long; 2.3 cm diameter
PESO	190 g