



NET RADIOMETER

FEATURES:

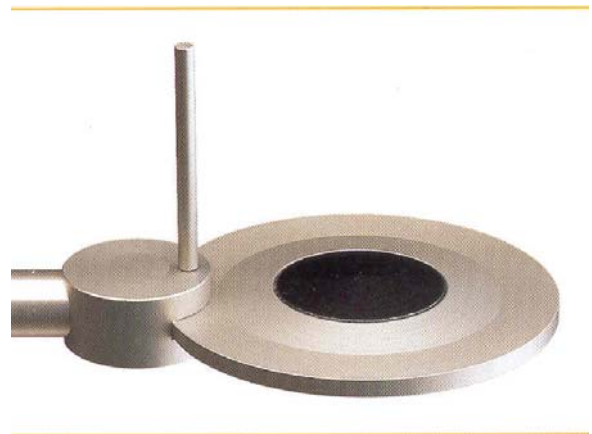
- **Inexpensive**
- **Excellent Long-Term Stability**
- **Wide Operating Temperature**
- **Analog Voltage Output**
- **Compact Size**

Climatronics' Net Radiometer (P/N 102341) is designed for routine measurement of net radiation which is the balance between incoming and outgoing radiation under outdoor conditions.

The design of the Net Radiometer is unique. The detector is based on a Teflon coated, weather resistant black conical absorber. In contrast to other sensor designs, NR-LITE requires no fragile plastic domes. This results in a virtually maintenance free design.

The Net Radiometer is suitable for: agricultural meteorology, the study of evapotranspiration calculations and crop damage prevention; building physics, the study of thermal stress and heat balance; and, road safety and highway condition monitoring

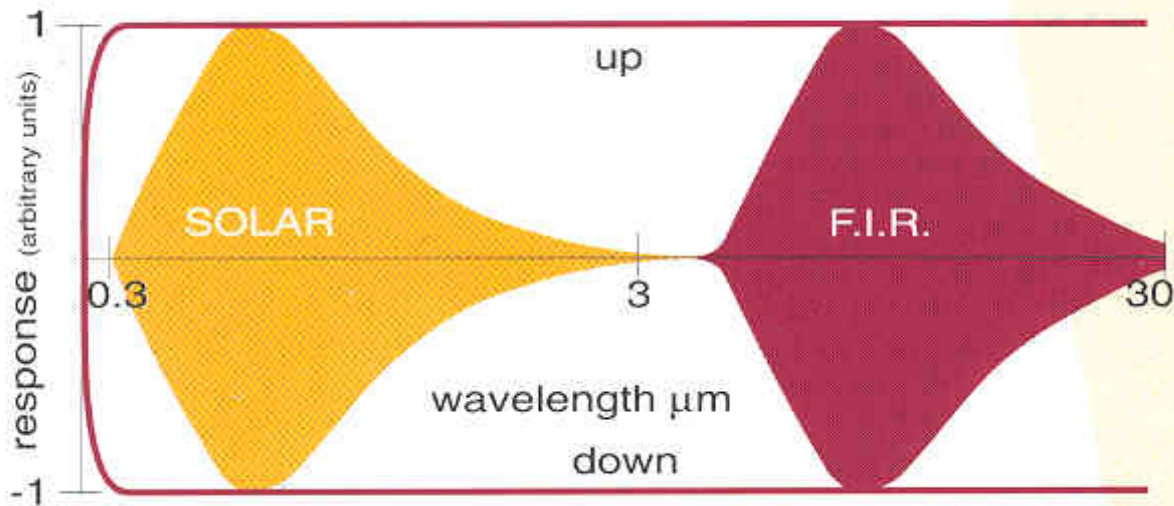
The Net Radiometer is easy to use. It is based on a thermopile sensor. The voltage output is proportional to the net radiation. It can be directly connected to voltmeter or data logger with a millivolt input.



SPECIFICATIONS

Spectral response:	0-100 microns
Detector protection:	Teflon coated (no domes)
Sensitivity (upper detector):	10 $\mu\text{V}/\text{Wm}^{-2}$ (nominal)
Recommended output range For atmospheric application:	-25 to +25 mV
Sensor asymmetry:	$\pm 15\%$
Range:	-2000 to +2000 Wm^{-2}
Response time(1/e):	20 sec (nominal)
Temperature range:	-30°C to +70°C
Directional error:	< 3% (0-60 degrees at 1000 Wm^{-2})

SPECTRAL RESPONSE



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