



## Net Radiometer

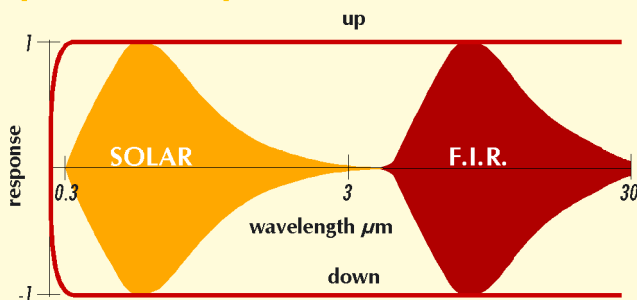
NR LITE is designed for routine measurement of net radiation which is the balance between incoming and outgoing radiation under outdoor conditions.

The design of the NR LITE 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 vertical stick prevents birds from affecting the output signal.

The NR LITE is easy to use. It is based on a thermopile sensor. The voltage is proportional to the net radiation. It can be directly connected to voltmeter or data logger with a mV input.

The NR LITE is suitable for outdoor use conditions and fully complies with CE regulations.

## Spectral Response



## Typical applications for the NR LITE:

**Agricultural Meteorology:** Evapotranspiration calculations and crop damage prevention.

**Building Physics:** Study of thermal stress and heat balance.

**Road Safety:** Highway condition monitoring.

## SPECIFICATIONS

Spectral range	0.2 - 100 $\mu\text{m}$
Detector protection	<b>Teflon™</b> coated
Sensitivity (upper detector)	10 $\mu\text{V}/\text{W}/\text{m}^2$ (nominal)
Expected output range for atmospheric application	-25 to +25 mV
Sensor asymmetry	$\pm 20\%$
Range	-2000 to +2000 $\text{W}/\text{m}^2$
Response time (63 %)	20 s (nominal)
Operating temperature	-30 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C}$
Directional error (0-60° zenith angle with 1000 $\text{W}/\text{m}^2$ beam)	$\pm 30\text{ W}/\text{m}^2$
Weight	250 g

## Dimensions

