

## 240-110 NR-Lite2 Net Radiometer

The **240-110 NR-Lite2 Net Radiometer** is designed for routine measurement of net radiation which is the balance between incoming and outgoing radiation under outdoor conditions. The detector is based on a Teflon coated, weather resistant black conical absorber. In contrast to other sensor designs, NR-Lite2 requires no fragile plastic domes. This results in a virtually maintenance free design. The NR-Lite2 is suitable for:

- Agricultural Meteorology: Evapotranspiration calculations and crop damage prevention
- Building physics: Study of thermal stress and heat balance
- Road Safety: Highway condition monitoring

The NR-Lite2 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-Lite2 is suitable for conditions outdoor use and fully complies with CE regulations.

### Specifications

Spectral response: 0-100 microns  
Detector protection: Teflon coated (no domes)  
Sensitivity (upper detector): 10  $\mu\text{V}/\text{W}/\text{m}^2$  (nominal)  
Recommended output range  
For atmospheric application: -25 to +25 mV  
Sensor asymmetry:  $\pm 20\%$   
Range: -2000 to +2000  $\text{W}/\text{m}^2$   
Response time (1/e): 20 sec (nominal)  
Temperature range: -30 °C to +70 °C  
Directional error (0-60 degrees at 1000  $\text{W}/\text{m}^2$ ): < 30  $\text{W}/\text{m}^2$   
Support arm: 16 x 400 mm  
Sensor enclosure: 80 mm dia

### Ordering Information

240-110	NR-Lite2 Net Radiometer, includes 15m cable
240-110-A	Amplifier PCB, specify output
220-0220S	Additional Cable, per foot

