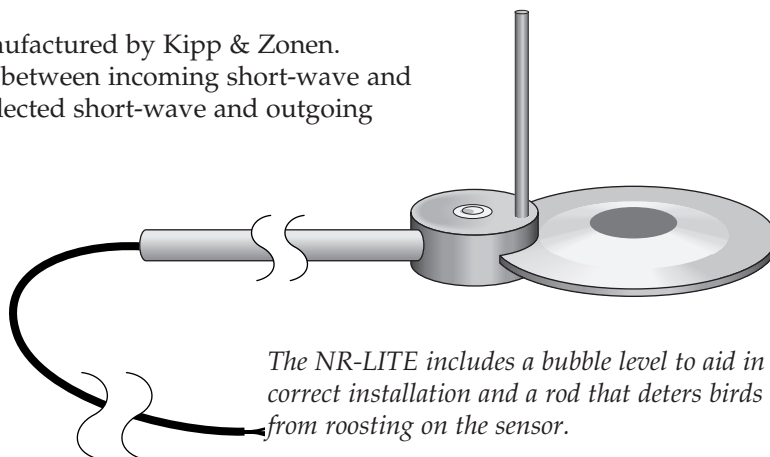


# Net Radiometer

## Model NR-LITE

The NR-LITE is a rugged net radiometer manufactured by Kipp & Zonen. Net radiometers measure the energy balance between incoming short-wave and long-wave IR radiation relative to surface reflected short-wave and outgoing long-wave IR radiation. This net radiometer includes two black conical absorbers; one facing upward, the other facing downward. They are coated in Teflon® making them resistant to weather without requiring a fragile plastic dome. Both absorbers are calibrated to an identical sensitivity coefficient. The net radiometer outputs a millivolt signal that is measured directly by a Campbell Scientific datalogger. Please note that the NR-LITE is not compatible with our CR200-series dataloggers.



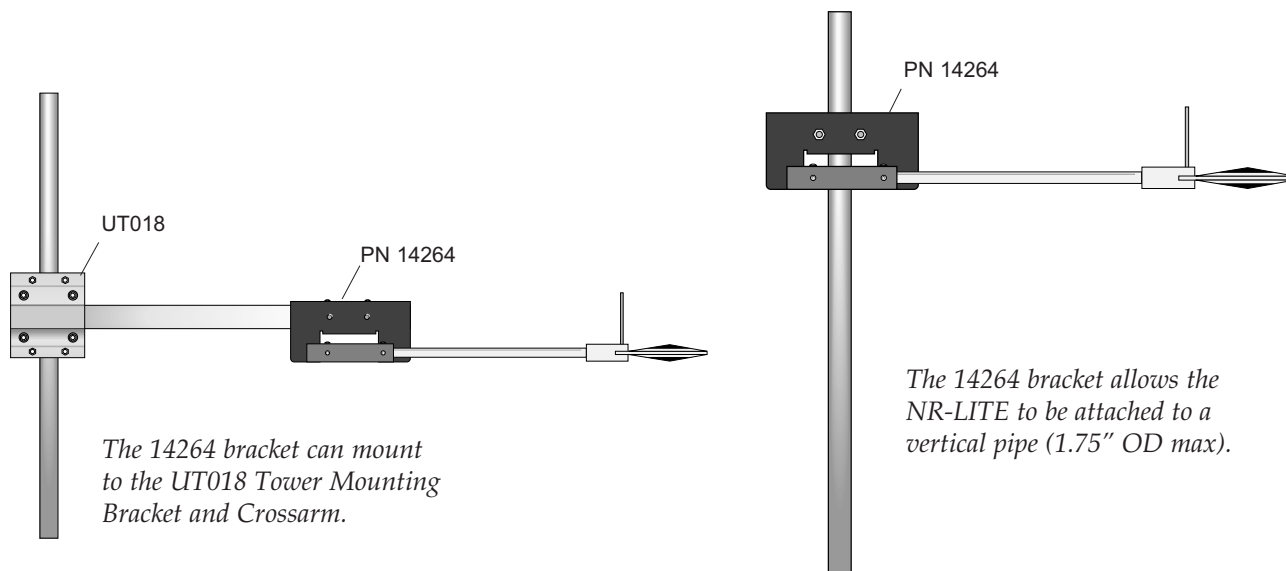
### Mounting

To avoid shading effects and to promote spatial averaging, the NR-LITE should be mounted at least 1.5 m above the ground. Campbell Scientific recommends mounting the NR-LITE to a separate vertical pipe at least 25' away from other mounting structures. PN 14264 mounting bracket is used to mount the NR-LITE directly to a vertical pipe, or to a UT108 Tower Mounting Bracket and Crossarm.

### Ordering Information

NR-LITE-L Specify the lead length in feet after the -L. A 48' lead length is recommended.

14264 Bracket for mounting NR-LITE



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## Specifications

Sensor:	Blackened thermopile
Spectral response:	0 to 100 $\mu\text{m}$
Response time ( $e^{-1}$ ):	20 seconds (nominal)
Sensitivity:	10 $\mu\text{V W}^{-1} \text{m}^2$ (nominal)
Output range:	$\pm 25$ mV
Range:	$\pm 2000$ $\text{W m}^{-2}$
Temperature range:	$-30^\circ$ to $70^\circ\text{C}$
Weight:	23 oz. (635 g)
Dimension:	
Sensor	3.1" (8.0 cm) diameter
Support arm	0.6" (1.6 cm) diameter x 31.5" (80 cm) L
Datalogger requirements:	One differential or single-ended analog channel
CE Compliance:	CE compliant under the European Union's EMC directive



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Printed June 2006