



Weather Resistant

PTFE-coated absorbers instead of fragile dome

Overview

The NR-LITE2 is a rugged net radiometer that measures the energy balance between incoming short-wave and long-wave infrared radiation relative to surface-reflected short-

wave and outgoing long-wave infrared radiation. It is directly connected to a Campbell Scientific datalogger and is widely used in agriculture and hydrology applications.

Benefits and Features

- ▶ Compatible with most Campbell Scientific data loggers
- ▶ Integrated bubble level ensures proper installation
- ▶ Includes rod that deters birds from roosting on the radiometer
- ▶ PTFE-coated absorbers are weather resistant without using a fragile plastic dome

Technical Description

The NR-LITE2 includes two black conical absorbers—one facing upward and the other facing downward. The absorbers are coated in PTFE, making them resistant to weather without using a fragile plastic dome. Both absorbers are calibrated to an identical sensitivity coefficient.

The NR-LITE2 has a bubble level to ensure proper installation and a rod that deters birds from roosting on the sensor. It produces a millivolt signal that is measured directly by a Campbell Scientific datalogger.

Specifications

Sensor	Two black conical absorbers—one facing upward and the other facing downward
Measurement Description	Measures incoming and outgoing short-wave and long-wave radiation
Spectral Range	0.2 to 100 μm
Response Time	< 20 s (nominal)

Sensitivity	10 $\mu\text{V W}^{-1} \text{m}^2$ (nominal)
Output Range	± 25 mV
Measurement Range	± 2000 W m^{-2}
Operating Temperature Range	-40° to $+80^\circ\text{C}$
Sensor Diameter	8.0 cm (3.1 in.)
Support Arm Diameter	1.6 cm (0.6 in.)

Support Arm Length	80 cm (31.5 in.)
Sensor Weight	200 g (7.0 oz)

Support Arm Weight 635 g (23 oz)

For comprehensive details, visit: www.campbellsci.eu/nr-lite2 



80 Hathern Road, Shepshed, LE12 9GX UK | + (0)1509 828888 | sale@campbellsci.co.uk | www.campbellsci.eu
AUSTRALIA | BRAZIL | CANADA | CHINA | COSTA RICA | FRANCE | GERMANY | INDIA | SOUTH AFRICA | SPAIN | THAILAND | UK | USA

© 2020 Campbell Scientific, Ltd. | 07/31/2020