



Weather Resistant

PTFE-coated absorbers instead of fragile dome

Overview

The NR-LITE2, manufactured by Kipp & Zonen and cabled for use with Campbell Scientific data loggers, 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 data logger and is widely used in agriculture and hydrology applications.

Benefits and Features

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

Detailed 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 data logger.

Specifications

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| Sensor Description | Blackened thermopile |
| Spectral Response | 0.2 to 100 μm |
| Response Time | 20 s (nominal) e^{-1} |

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|-------------------|--|
| Sensitivity | 10 $\mu\text{V W}^{-1} \text{m}^2$ (nominal) |
| Output Range | $\pm 25 \text{ mV}$ |
| Measurement Range | $\pm 2000 \text{ W m}^{-2}$ |

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|-----------------------------|------------------|
| Operating Temperature Range | -30° to +70°C |
| Sensor Diameter | 8.0 cm (3.1 in.) |
| Support Arm Diameter | 1.6 cm (0.6 in.) |

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|--------------------|------------------|
| 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.com/nr-lite2 



Campbell Scientific, Inc. | 815 W 1800 N | Logan, UT 84321-1784 | (435) 227-9120 | www.campbellsci.com
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