Microcom Design, Inc.

Net Solar Radiation
Model NR-LT

P/N: SR-101

The Model NR-LT Solar Radiation sensor (**NR-LT** pyranometer) is designed for the reliable measurement of total global net radiation; the energy balance between the incoming spectral short-wave and long-wave IR radiation, from 0 to 100 mm, relative to the surface reflected short-wave and outgoing long-wave IR radiation. The revolutionary low maintenance two-way sensor design of the **NR-LT** features a unique conical shaped black teflon coated aluminum absorber surface, on both the up and downward facing sensor surfaces. Upon manufacture, the sensitivity of both sensors are trimmed and calibrated to a single identical sensitivity coefficient. The **NR-LT** outputs a milli-volt signal that is proportional to the total global net energy balance, though a permanently attached two wire shielded all weather cable.

Specifications

Detector Protection: Teflon coated (no domes)
Sensitivity (upper detector): 10µV/Wm-2 (nominal)
Recommended output range for atmospheric application: -25 to +25mV
Sensor Asymmetry: ±20%
Range: -2000 to +2000W m^2
Response Time (1/e): 20 sec (nominal)
Temperature Range: -30℃ to +70℃
Directional Error: <30

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