

Net Radiometer

Dual upward & downward pyranometers & pyrgeometers in a compact design

Downward-looking pyrgeometer and pyranometer



NEW OUTPUT!

Now available with Modbus RS-232/RS-485 outputs (model SN-522-SS).

High Accuracy

Measure all four components of net radiation with a single digital output, conserving datalogger ports. It has comparable accuracy to other industry-leading competition in long-term field testing, but with a smaller housing and at a fraction of the price.

	SN-500-SS	SN-522-SS
Input Voltage Range	5.5 to 24 V DC (heaters are optimized to run at 12 V DC)	
Output Type	SDI-12	Modbus
Current Draw (12 V DC supply voltage)	Heaters on, communication enabled: 63 mA; Heaters off, communication enabled: 1.5 mA; Heaters off, communication disabled: 0.6 mA	Heaters on: 72 mA; Heaters off: 13.5 mA
Response Time	1 s (SDI-12 data transfer rate; detector response times are 0.5 s)	750 ms to digitize all sensor signals
Operating Environment	-50 to 80 C; 0 to 100 % relative humidity	
Dimensions	116 mm length, 45 mm width, 66 mm height	
Mass	320 g (with mounting rod and 5 m of lead wire)	
Warranty	4 years against defects in materials and workmanship	

*For individual sensor specifications, view the thermopile pyranometer (15) and pyrgeometer (25) pages.

Heated Sensors

Each sensor includes a 0.2 W heater to minimize errors from dew, frost, rain, and snow that can block the radiation path.

Case Study

Apogee Instruments' net radiometers were used by The University of Utah Department of Atmospheric Sciences for a multidisciplinary study at the **Bonneville Salt Flats** to research the effect of changing surface albedos during flooding and desiccation cycles.

