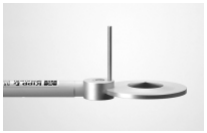
CAMPBELL SCIENTIFIC
WHEN MEASUREMENTS MATTER

Solar Radiation Sensors

Pyranometers, quantum sensors, and net radiometers

The solar radiation sensors that Campbell Scientific offers come in a variety of designs: pyranometers, net radiometers, quantum sensors, and pyrheliometers. These sensors measure various aspects of the energy imparted by the sun on the Earth's surface. A leveling fixture fitted with a bubble level may be required to accurately install solar radiation sensors.

		ISO Classification	*Spectral Range*	*Sensitivity*	*Operating Temperature Range*
CS320 Digital Thermopile Pyranometer Featured		Class C (second class)	385 to 2105 nm (50% points)	0.057 mV/W/m^2	-50° to +50°C
CS310 Quantum Sensor Featured		—	389 to 692 nm ±5 nm (wavelengths where response is greater than 50% of maximum)	0.01 mV per µmol m^{-2} s^{-1}	-40° to +70°C
LP02 Pyranometer Featured		ISO 9060:2018 Class C (second class)	285 to 3000 nm	15 µV/W/m^2 (nominal)	-40° to +80°C
SR11 First Class Pyranometer Featured		Class B (first class)	285 to 3000 nm	15 µV/W/m^2 (nominal)	-40° to +80°C

		ISO Classification	*Spectral Range*	*Sensitivity*	*Operating Temperature Range*
SR20-T2-L ISO Secondary Standard Pyranometer with 10K Thermistor Featured		Class A (secondary standard) pyranometer (ISO 9060:2018)	285 to 3000 x 10^{-9} m (20% transmission points)	7 to 25 x 10^{-6} V/ (W/m^2)	-40° to +80°C
CMP3-L Pyranometer with Sun Shield Featured		Class C (second class)	300 to 2800 nm	5 to 20 µV/W/ m^2	-40° to +80°C
CMP6 Pyranometer Featured		Class B (first class)	285 to 2800 nm	5 to 20 µV W^{-1} m^2	-40° to +80°C
CMP11 Pyranometer Featured		Class A (secondary standard)	285 to 2800 nm	7 to 14 µV/W/ m^2	-40° to +80°C
CMP21 Pyranometer Featured		Class A (secondary standard)	285 to 2800 nm	7 to 14 µV/W/ m^2	-40° to +80°C
NR-LITE2-L Net Radiometer Featured		—	0.2 to 100 µm	10 µV W^{-1} m^2 (nominal)	-40° to +80°C
NR01 4-Component Net Radiometer Featured		—	❱ Pyrgeometer: 4500 to 50,000 nm ❱ Pyranometer: 305 to 2800 nm	10 to 40 µV W^{-1} m^2	-40° to +80°C
CNR4 4-Component Net Radiometer Featured		—	Pyranometer : 305 to 2800 nm	5 to 20 µV W^{-1} m^2	-40° to +80°C
CS301 Pyranometer		Class C (second class)	360 to 1120 nm	0.2 mV/W/m^2	-40° to +70°C
LI200R Pyranometer		—	400 to 1100 nm	0.13 kW m^{-2} mV^{-1} (typically)	-40° to +65°C

For comprehensive details, visit: www.campbellsci.eu/solar-radiation

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