



# CS300-LQ

Pyranometer for RAWS-P



## Accurate and Dependable

Ideal for permanent automated weather stations

### Overview

The CS300-LQ, manufactured by Apogee Instruments, measures total sun and sky solar radiation for solar, agricultural, meteorological, and hydrological applications. Its spectral

range of 360 to 1120 nanometers encompasses most of the short-wave radiation that reaches the Earth's surface. The CS300-LQ is intended for continuous outdoor use.

### Benefits and Features

- › Compatible with most Campbell Scientific data loggers
- › Designed for continuous, long-term, unattended operation in adverse conditions
- › Measurement waveband of 360 to 1120 nm
- › Dome-shaped head prevents water from accumulating on the sensor head

### Detailed Description

With this version of the CS300 pyranometer, the cable terminates in a military style connector and has a user-specified lead length. The connector attaches to the RAWS-P enclosure, which mounts to a CM6/CM10 tripod, CM110-series tripod, or UT-series tower.

The CS300-LQ uses a silicon photovoltaic detector mounted in a cosine-corrected head to provide solar radiation measurements. Its dome-shaped head prevents water from accumulating on the sensor head. To eliminate internal condensation, the sensor head is potted solid and the cable is shielded with a rugged Santoprene casing.

### Specifications

Light Spectrum Waveband	300 to 1100 nm	Cosine Response	±4% at 75° zenith angle; ±1% at 45° zenith angle
Measurement Range	0 to 2000 W m <sup>-2</sup> (full sunlight ≈1000 W m <sup>-2</sup> )	Temperature Response	0.04 ± 0.04% per °C
Absolute Accuracy	±5% for daily total radiation	Long-Term Stability	< 2% per year

For comprehensive details, visit: [www.campbellsci.com/cs300-lq](http://www.campbellsci.com/cs300-lq)



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