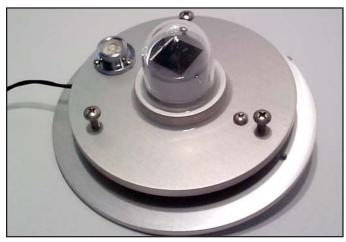
240-140 & 240-150 Silicon Cell Pyranometer

The Model 240-140 Silicon Cell Pyranometer measures global solar radiation. When used with the 240-152 Shadow Band, it will measure diffuse radiation. This pyranometer is low cost, lightweight, and easy to install. The 240-150 includes a mounting and leveling plate. The sensor is a silicon photovoltaic cell that absorbs radiation from 0.35 to 1.15 microns. The silicon cell converts this light energy into electrical energy and the output voltage (approximately $80 \text{ mV}/1000 \text{ W/m}^2$) is essentially linear with light intensity. Because the instrument is light sensitive, not heat sensitive, full scale response time is less than one millisecond. If the output is integrated over a daily period, the accuracy of the value is within \pm 3%. Accuracy of instantaneous values is \pm 5%.



240-150 Silicon Cell Pyranometer with Mounting and Leveling Plate

Specifications

Sensor: Silicon photovoltaic cell Spectral response: 0.35 to 1.15 microns Sensitivity: Approx 80 mV/1000 W/m² Full scale response time: < 1 millisecond

Impedance: 1 ohm Accuracy: ±5%

Temperature compensation: +4° to +60°C

Windshield: Pyrex glass dome

Leveling: Circular level and 3 threaded feet

Size: 5" Dia x 2" H Weight/shipping: 1 lb/2 lbs

Ordering Information

240-140 Silicon Cell Pyranometer, 10' cable 240-140/20 Silicon Cell Pyranometer, 20' cable 240-140LM Leveling/Mounting Plate Kit

240-150 Silicon Cell Pyranometer, with leveling/mounting

plate, 10' cable

240-153 Tower Mount, 1' boom with tower mounting hardware

330-0224 Cable, 2-conductor, 24 AWG shielded

