

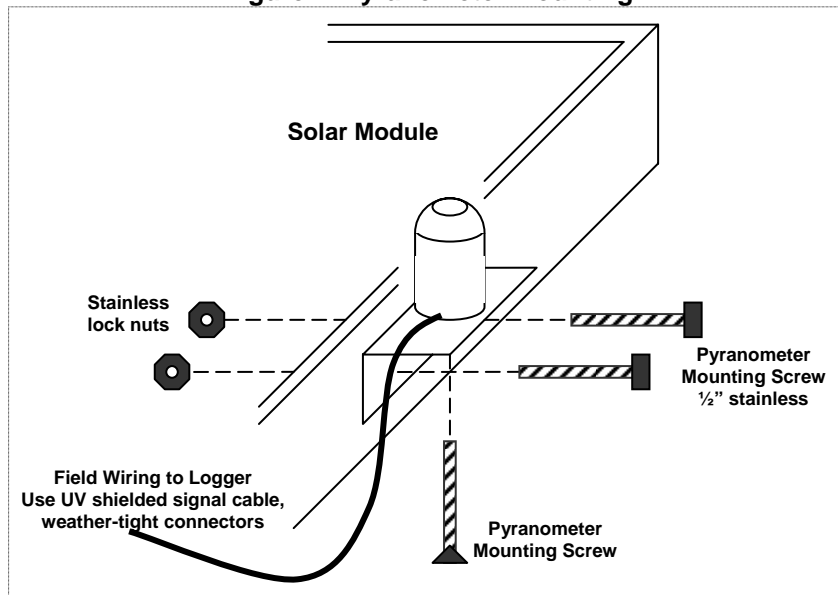


Installation Instructions - Apogee Pyranometer

Mounting the Pyranometer

The pyranometer should be mounted in the same plane (i.e., with the same tilt and orientation) as the solar panel array. The aluminum L bracket included with the pyranometer is designed to be bolted to a PV module's aluminum frame, as shown in the figure below. The pyranometer can be mounted in a different location from the solar array, but should be oriented in the plane of array. Take care that the pyranometer will not be affected by shading from other objects.

Figure 1. Pyranometer Mounting



Pyranometer Wiring

The pyranometer comes with a 6-foot cable, which typically needs to be extended to the logger with field wiring. Use weather-tight butt-splices to join the pyranometer leads to field wiring back to the logger; as an alternative, enclose the transition splices in a weather-tight transition box. Use only high-quality, shielded signal wires for field wiring.

Wire shields should be grounded to the GROUND terminal on the sensor block. When exposed outdoors, wire insulation should be UV rated. Wire the pyranometer's ground and negative leads (clear and black, respectively) to GROUND on the logger's terminal block; wire the pyranometer's positive lead (red) to +/-0-250MV on the logger's terminal block.

Table 1. Pyranometer Wiring

<u>Pyranometer Lead</u>	<u>Logger Terminal</u>
Clear (Ground)	Terminal Block (GROUND)
Black (Negative)	Terminal Block (GROUND)
Red (Positive)	Terminal Block (+/-0-250MV)