

094 Solar Radiation Sensor

An ISO 9060 Second Class Pyranometer that provides Affordable, Bankable Solar Data.

Met One Instruments, Inc.'s 094 is a new class of solar sensor. Packing ISO 9060 Second Class performance at the price of a silicon photodiode sensor, the Model 094 pyranometer makes reliable, bankable data more affordable than ever. It is a perfect solution for applications from solar prospecting, to utility grade reference systems, to general meteorology.

The Model 094 fully complies with the requirements of ISO 9060 and the World Meteorological Organization's requirements for solar measurements, as an ISO Second Class and WMO Moderate Quality sensor. This provides accurate, bankable data for all applications where accuracy matters.



Specifications

Sensor Type:	Thermopile Pyranometer
Wavelength Range:	300-2800 nm
Sensing Method:	Black paint sensing plate
Sensitivity:	5-15 mV/kW/m ²
Output Accuracy:	Approx. ± 3%
Response Time:	<16 sec (95%)
Zero Offset:	<5 W/m ² (temp change 5 K/h)
Non-linearity:	<2% (0-1000 W/m ²)
Azimuth Error:	<30 W/m ² (1000 W/m ² beam @ 80°)
Tilt Error:	<2% (0-90° 1000 W/m ²)
Temperature Range:	-40°C to +60°C
Field of View:	180°
Measurement Range:	0-2000 W/m ²
Temperature Dependence:	<5% (-10°C to +40°C)
Body Material:	Aluminum (PBT cover)
Waterproof:	IP67
Cable:	10m shielded cable included, S-VSVC, 0.16in dia. (4mm)
Weight:	7oz (200g) sensor, 1lb 8oz (700g) with 10m Cable
Dimension:	3.2in dia. X 2.3in H. (80mm dia. x 57mm)

Specifications are subject to change at any time.

Applications

- Ambient Air Monitoring
- Environmental Surveys
- Government