

1ST CLASS PYRANOMETER 5600-0601



FOR ROUTINE GLOBAL SOLAR
RADIATION MEASUREMENT
RESEARCH ON A PLANE/LEVEL
SURFACE

Fully compliant with all ISO-9060 specification criteria and supplied standard with a WRR (World Radiometric Reference) traceable calibration certificate, the 5600-0601 is a First Class Pyranometer as defined by the World Meteorological Organization. It is suitable for the measurement of solar irradiance on a plane surface (W/m^2). The pyranometer incorporates a 64-thermocouple sensor housed under two concentric fitting Schott K5 glass domes. A white screen prevents the body of the pyranometer from heating up. It is supplied with an integrated built in bubble level and feet for accurate leveling. A drying cartridge keeps the interior free from humidity.

APPLICATIONS

- Crop management
- Irrigation control
- Global radiation
- Sky radiation
- Reflected solar radiation

ORDERING

5600-0601 Pyranometer, WMO First Class

HELPFUL HINTS

Pyranometers have viewing angles horizon to horizon. The site selected for exposing a pyranometer should be free from any obstruction above the plane of the pyranometer. The pyranometer should not be near light colored walls or other objects likely to reflect sunlight on to it. If the pyranometer is to be mounted on an arm off of a tower, then in the northern hemisphere the pyranometer should be on the south side of the tower. In the southern hemisphere it should be mounted on the north side.



SPECIFICATIONS

Specifications subject to change without notice

Spectral Range	305 - 2800 nm (50% points)
Sensitivity	9 - 15 μ V/ W/m^2
Impedance	70 - 100 Ohms
Response Time	99% 55s, 95% 18s
Non-Linearity	+/ $<1.2\%$ ($<1000 W/m^2$)
Tilt Error	+/ $<1.0\%$ ($<1000 W/m^2$)
Operating Temp	-40°C to 80°C
Temperature Dependence	$\pm 2\%$ (-10°C to 40°C)
Maximum Irradiance	2000 W/m^2
Directional Error	$< \pm 20 W/m^2$ (Beam 1000 W/m^2)
Weight	0.85kg
Cable Length	10 m
Expected Accuracy	$\pm 5\%$ for daily sums

FOR 8200

Set J14 to **-DIFFIN** and J15 to **+DIFFIN**; wire sensor to Analog 6 and 7. Configure **"Pressor Sensor for slope of 1/sensitivity"**.