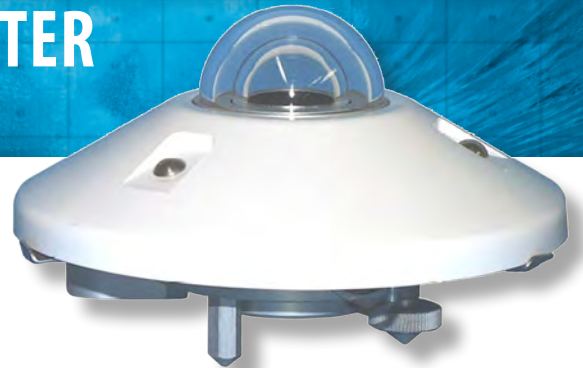


PRECISION SPECTRAL PYRANOMETER 5600-0602



A First Class Radiometer that Precisely Measures Sun & Sky Radiation

The 5600-0602 is a First Class Radiometer (as defined by the World Meteorological Organization, WMO); compliant with all ISO 9060 performance criteria.

APPLICATIONS

- ▶ Solar collector testing
- ▶ Global radiation
- ▶ Sky radiation
- ▶ Reflected solar radiation
- ▶ Calibration

FEATURES

The sensor can be used to measure total solar radiation or in defined wavelength bands. It features

- ▶ Circular multi-junction Eppley wire-wound thermopile capable of withstanding severe mechanical vibration and shock
- ▶ Receiver coated with Parson's black lacquer (non-wave-lengthselective absorption)
- ▶ Pair of removable precision ground and polished hemispheres of Schott optical glass
- ▶ Both inner and outer hemispheres of clear WG295 glass, uniformly transparent to energy between about 285 and 2800 millimicrons
- ▶ Includes a spirit level, adjustable leveling screws, and a desiccator which can be readily inspected
- ▶ Cast bronze body with a white enameled guard disc
- ▶ Schott optical glass for the outer hemisphere also available in GG395 (clear), GG495 (yellow), OG530 (orange), RG630 (red), and RG695 (dark red)
- ▶ Other Schott glasses and Infrasil II quartz hemispheres available
- ▶ Calibration certificate traceable to the World Radiation Reference included with conversion factors for various energy units

SPECIFICATIONS

| | |
|------------------------|--------------------------------------------------------------------------------------------------------------------------|
| SPECTRAL RANGE | 285 to 2800 millimicron (nm) |
| SENSITIVITY | 9 μ V/W/m ² (approx.) |
| IMPEDANCE | 650 ohms (approx.) |
| RECEIVER | Circular 1cm ² , coated with Parson's black optical lacquer |
| TEMPERATURE DEPENDENCE | \pm 1% from -20°C to +40°C |
| TEMPERATURE RANGE | -40°C to +80°C |
| LINEARITY | \pm 0.5% from 0 to 2800 W/m ² |
| RANGE | 0 to 2800 W/m ² |
| MAX SOLAR IRRADIANCE | 2800 W/m ² |
| RESPONSE TIME | 1 second (1/e signal) |
| COSINE | \pm 1% from 0 to 70° zenith angle \pm 3% 70° to 80° zenith angle |
| ORIENTATION / TILT | No effect on instrument performance |
| MECHANICAL | |
| VIBRATION | Tested up to 20 g's (no damage) |
| DIMENSIONS | 5.75 in. Dia x 3.75 in. H |
| WEIGHT | 7 lbs |
| CALIBRATION | Integrating hemisphere (approx. 1 cal. cm ⁻² min ⁻¹ , ambient temperature +25°C) |
| ORDERING | |
| 5600-0602 | Pyranometer, Precision Spectral WG295 glass standard (285 to 2800 nm) |
| Special | Schott colored glass outer hemisphere hemispheres: |
| | GG395 (clear) GG495 (yellow) OG530 (orange) RG630 (red) RG695 (dark red) |
| ACCESSORIES | |
| 8111-1073-1 | Amplifier with voltage & frequency outputs |



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