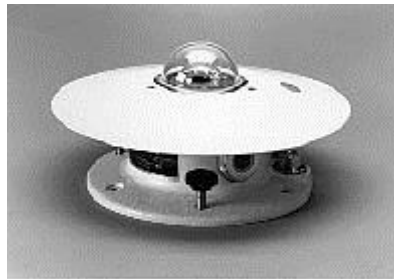




PRECISION SPECTRAL PYRANOMETER

Model PSP Specifications



There are two generally accepted Classification Systems used for Pyranometers. ISO classifies pyranometers as a “Secondary Standards”, “First Class” or “Second Class” while WMO uses “High Quality”, “Good Quality” and “Moderate Quality”.

The Precision Spectral Pyranometer, Model PSP is classified as a ISO Secondary Standard or WMO High Quality Pyranometer.

- Classification: ISO Secondary Standard Pyranometer / WMO High Class
- Response Time (95%): 10-15 seconds, 100% <30s
- Zero Offset to 200 Wm⁻² net radiant loss to sky: 4-6 Wm⁻²
- Zero Offset to 5° C/hr change in ambient temperature: 1-2 Wm⁻²
- Resolution: < 1 Wm⁻²
- Non-Stability: <0.5% / yr (typical)
- Non-Linearity: ±0.5%
- Directional Response: < 10 Wm⁻²
- Spectral Selectivity: 1%
- Spectral range: 208 ~ 3000nm
- Temperature Response: ±1%
- Temperature Response:<0.15% per/°C (from -20 to +40oC)
- Linearity: 0-3000W/m², ±1%
- output sesitivity : 7~14μV/W/m²
- current output optional external converter 4 ~ 20mA
- deviation: <±2%
- RH:0 to 100%
- Operation Temp.: -40 to 65°C (temp comp may be more than 1%), special compensation – 50 to + 50°C
- Tilt Response: < 0.5%
- Achievable Uncertainty (Hourly): 1-2 %
- Achievable Uncertainty (Daily): 1-2 %
- Suitable Application: Working Standard or Network Measurements