JDA 日煬科技有限公司
JD Auspice Co., Ltd

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/℃(from -20 to +40oC)
- Linearity: 0-3000W/㎡, ±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℃(temp comp may be more than 1%), special compensation – 50 to + 50℃
- Tilt Response: < 0.5%
- Achievable Uncertainty (Hourly): 1-2 %
- Achievable Uncertainty (Daily): 1-2 %
- Suitable Application: Working Standard or Network Measurements