MS-700 Spectroradiometer

MS-700 Spectroradiometer

The compact all-weather MS-700 spectroradiometer is unique in many ways. It is a reference instrument for outdoor spectral irradiance measurements in many high-end research applications. The MS-700 covers a spectral range from 350nm to 1050nm and benefits from an advanced spectrometer which gives a stable output over time. The detector unit is temperature controlled at a fixed temperature to maximize the performance in a wide operating temperature range. It can be fully controlled by the data-logger through the serial command interface without the need for a separate PC.

The MS-700 DNI with 5 degree angle collimating tube benefits from the same characteristics as the MS-700. The quartz window is heated and will remain free from dew deposition and ice. Due to its compact size in can be used in combination with the STR-21G and STR-22G Sun Trackers.

Features

- Suitable For Permanent Outdoor Use
- Excellent Long Term Stability
 Of Detector Array
- Good Cosine Response Due
 To Integrated Diffusor And Optics
- Low Temperature Dependency
- Fully Controllable By Data Logger
- High Quality Calibration



Sweek www.isweek.com

Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.ChinaTel: + 86-755-83289036Fax: + 86-755-83289052E-mail: sales@isweek.com

MS-700 Spectroradiometer

Specs			
Specifications (Typical)	MS-700	MS-700 DNI	
Sensor head			
Wavelength range	350 to 1050 nm	350 to 1050 nm	
Wavelength interval	3.3 nm	3.3 nm	
Spectral resolution FWHM	10 nm	10 nm	
Wavelength accuracy			
Exposure time (Exposure time)	10ms - 5sec	10ms - 5sec	
Temp. dependency (-20°C to 50°C)	< ± 1 %	< ± 1 %	
Temperature control	25 +/- 5°C	25 +/- 5°C	
Cosine response (080°)	< 7%	-	
Aperture	180°	5°	
Slope angle	-	1°	
Stray light	0.15%	0.15%	
Window material	Optical glass	Quartz glass	
Communication	RS-422 (Between head and power supply)		
Cable length		10m (Optional max. 30m)	
Power requirements	12VDC, 50VA (power supply)		
Operating temperature range (°C)	- 10 to +40	- 10 to +40	
Dimensions (sensor)			
	200(φ)×175(H) mm	200(φ)×300(H) mm	
	(With sun screen:		
	240(φ)×175(H) mm)		
Woight (concor)	4ka	4.5kg	
Weight (sensor) Power supply	4kg	4.5Kg	
AC supply voltage	AC100-240V, 50/60 Hz, 50VA		
DC supply voltage	DC 12V DC 12V		
Operating and environmental	DC 12V	DC 12V	
conditionsTemperature: 0 - 40°C, Relative Humidity: 0 - 90 (%)		0 - 90 (%)	
	*No condensation		
Dimensions	200 (W) x 140 (D) x 80 (H) mm		
Weight	1 kg	1 kg	
5	5	5	

Sweek www.isweek.com

Add: 16/F, Bldg. #3, Zhongke Mansion, No.1 Hi-Tech S. Rd, Hi-Tech Park South, Shenzhen, Guangdong, 518067 P.R.China