

Lunar version Skyradiometer

POM-01M



- POM-01M measures the spectral intensity of light around the sun and direct light from the sun and moon. This instrument can estimate the particle size distribution and concentration of dust in the atmosphere.
- The sensing unit is mounted on a tracking device, and the tracking sensor captures the position of the sun and moon for automatic tracking.
- The measurement data is processed by a microprocessor and stored in a personal computer.

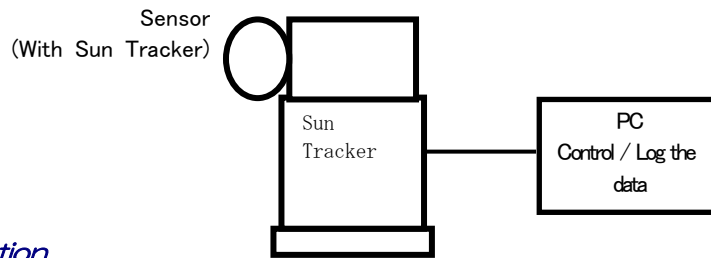
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Composition



Specification

NOTE: that specifications are subject to change due to product improvement.

Half view angle	0.5°							
Min. Scattering angle	0,2,3,4,5,7,10,15,20,25,30,40,50,60,70,80,90 180 (°) [*Max 180°]							
Band width 50%	10nm							
Wavelengths (nm)	Monitor Channel	1	2	3	4	5	6	7
	Wavelength (nm)	315	400	500	675	870	940	1020
	*Channel 0 is a dark value. 940nm is water vapor absorption band							
Channel Setting	Filter wheel type							
Detector	Si Photodiode : Hamamatsu Photonics							
Range	2.5mA , 125A , 6.25uA , 312.5nA , 15.62nA , 781.2pA , 39pA *Auto Control							
Temperature Control and Measurement	40°C (heating control only) Measurement range: Short λ: 0 to 50 degC Option : Heat Insulation Cover							
Control Structure	Stepper motor: Azimuth / Zenith angle 2 axis Motor step: 0.0036° / pulse							
Tracker range of motion	Azimuth	±300° (0° to the south)						
	Zenith	-60 to 160 (horizontal 0°)						
Position sensor	4-element Si sensor: Made by Hamamatsu Photonics * See attached sheet							
Rain sensor	AKI-1801 * See attached sheet							
Communication	RS-232							
Power consumption	200W (100V/2A)							
Power supply	100 to 240 VAC /2A (50/60Hz)							
Weight	Skyradiometer / Approx. 16kg							
	Cable: Approx. 4kg/20m (Standard)							
Accessories	Power Cable (Standard 20m) Communication cable (20m: standard) * Long-distance transmission cable up to 100m is possible Rain Sensor Shield Tool BOX (equipment fixing bolt screw, hexagon wrench, self-adhesion tape, silica gel) CD-ROM • CD-ROM (For observation software) Case for Sensor tube							