

# Sky Radiometer

## POM-02

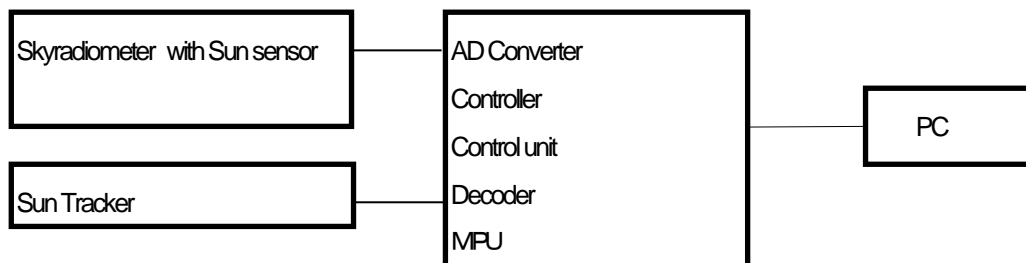


### Features

POM-02 is an instrument to measure the circumsolar radiation and the spectrum intensity of the direct solar radiation, for the estimation of the dust particle size distribution and density.

Detector part is mounted on the sun tracker, with the Sun sensor by which the instrument can follow the position of the sun all the time. Measured data are processed through the micro processor and stored into the PC. In addition to the all features of POM-01, POM-02 has a long wavelength filter and the function of cloud measurement, during the stand-by mode.

### Construction



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## Specification

Opening Half View Angle	0.5deg
Minimum diffuse Angle	3deg
Wave Length	315, 340, 380, 400, 500, 675, 870, 940, 1020, 1627, 2200 nm (standard)
Wavelength selection	Filter wheel method
Detector	Short wavelength :Silicone photo diode
	Long wavelength: In Ga As
Drive system	Pulse motor drive system
An angle of operation	±300 degrees (South 0 deg)
	-60 to 160 degrees (Horizontal Level 0 deg)
Solar position sensor	4 element silicon sensor
PC interface	RS-232
Power consumption	200W (100V/2A)
Power	AC100~AC240V/2A
Operating Temperature	-10 to +35°C
	-10 to +45°C (With Cooling Unit (High Temperature Option)) -30 to +35°C (With Heat Insulation Cover (Low temperature option))
	NOTE: Cooling Unit and Heat Insulation Cover cannot be fitted together, but either one must be chosen.
Operating Humidity	0 to 100% RH
Cable length	20m(standard)
Weight	Skyradiometer with Sun tracker / Approx. 19kg
	Cable/ Approx 4kg

## Dimension

