POM-01

POM-01 is a sky radiometer mounted on a dedicated sun tracker. It uses a single detector and rotating filter wheel to measure radiation in seven narrow wavebands, either directly from the sun or at user-defined angles away from the sun. The instrument has a base with levelling feet and a sun sensor for active tracking. Installation is quick and simple and a precipitation sensor is included so that the radiometer is pointed downwards during rain to keep the optics clean.

POM-01 must be connected to a PC running the operating software in order to make measurements and store data. The supplied software allows comprehensive user selection of the scanning modes. The data can be post-processed to provide parameters including aerosol optical depth, scattering coefficients, aerosol distribution and energy distribution.

Specifications

Measurement principle	Multiple band filter spectrometer
Detector	Silicon photo-diode
Sun tracker	Integrated, with sun and rain sensors
Supply voltage	115/230 VAC, 50/60 Hz (standard), 24 VDC (option)
Operating temperature range	-30 °C to +35 °C -50 °C to +35 °C with low temperature option -35 °C to +50 °C with high temperature option
Wavelengths	315, 400, 500, 675, 870, 940 and 1020 nm
Wavelength accuracy	2 nm
Half-power bandwidth	3 nm for 315 nm filter, 10 nm for other filters
Full opening view angle	2 °
Communication	RS 232 to PC (not included) running operating software
Software, Windows™	Configuration, operation, data storage

Article	Part number
POM-01 Sky Radiometer 7 wavelengths with sun & rain sensors	**3307001**

Distribution

POM is designed and produced by **Prede Co. Ltd** of Tokyo and is distributed exclusively by Kipp & Zonen worldwide (with the exception of Japan, Korea and India)

Accessories for POM-01	Part number
24 VDC Power Input instead of 115/230 VAC	**DCP**
Low Temperature Option for operation to -50 °C	**3307011**
High Temperature Option for operation to +50 °C	**3307012**
Dust Protection System for optical windows	**3307013**

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