POM-02

POM-02 has all the features of the POM-01, but with extended waveband ranges. There is growing interest in monitoring aerosols of larger size and this requires measurement at longer wavelengths. In addition to the optical system with silicon photo-diode detector of the POM-01, the POM-02 has a second optical system with an Indium Gallium Arsenide infrared detector.

The filter wheel has 11 wavebands, providing measurements to 2200 nm, and also has additional UV channels. POM-02 must be connected to a PC running the operating software in order to make measurements and store data. Like the POM-01, maintenance is minimal; consisting of regular cleaning of the optical windows and checking the desiccant in the radiometer.

Specifications

Measurement principle	Multiple band filter spectrometer
Detector	Silicon photo-diode and InGaAs 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, 340, 380, 400, 500, 675, 870, 940, 1020, 1600 and 2200 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-02 Sky Radiometer 11 wavelengths with sun & rain sensors	**3307010**

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-02	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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