MR-60 Net radiometer

Technical Specifications

Measures 4 radiation components

Spectral range 285nm to 30µm

Measures albedo and radiation balance

Optional dome temperature compensation thermistor

Four-Component Radiometer MR-60 is an instrument designed to individually measure the short-wave radiation in the visible to near/mid-infrared range and the long-wave radiation in far-infrared range in the upwards and downwards direction. When long/short-wave radiations are measured, albedo, short-wave radiation balance, long-wave radiation balance, amount of radiation balance, estimated sky temperature and estimated land surface temperature can be determined.

	MR-60
Number of Channels	4 irradiance channels, 2 temperature channels
Cable length	10 m
Operating temperature range	-40 - 70 °C

Pyranometer	**MR-60**
ISO 9060 classification	Second Class
Response time 95%	< 17 Sec.
Sensitivity	4 - 10 µV/W/m²
Zero Offset A 200W/m²	< 10 W/m²
Zero Offset B 5K/hr	< 6 W/m²
Stability	< 1.7 %/year
Non-linearity at 1000W/m²	< 1.5 %
Temperature response -10°C + 40°C	< 2 %
Tilt response	2 %
Impedance	140 Ω
Wavelength range	285 - 3000 nm

Pyrgeometer	MR-60
ISO 9060 classification	-
Response time 95%	< 18 Sec.
Sensitivity	5 - 10 µV/W/m²
Stability	1 %/year
Temperature response -10°C + 40°C	6 %
Tilt response	3 %
Field of View FOV	180 °
Wavelength range	3 - 50 µm
Window heating Offset	25 W/m2

Options	MR-60
Cable length	20 / 30 m m

Specifications are subject to change without further notice.