

# MS-10S, MS-11S

Next-Generation UVA & UVB Radiometers



## Overview

Setting a new standard in UV irradiance monitoring, the MS-10S UVA and MS-11S UVB radiometers with integrated transducers deliver precise temperature correction, outstanding stability, superior UV measurement range and unbeatable response times.

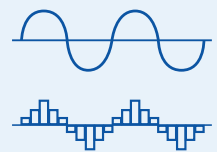
Part of EKO's elite S-Series range of solar monitoring solutions, the MS-10S and MS-11S also include a unique 4-channel smart interface compatible with 99% of data loggers, DAQ, and SCADA systems. And internal diagnostic sensors for remote visibility over internal temperature, humidity, tilt and roll angle, ensuring optimum performance with reduced maintenance costs.

With a compact and lightweight design based on EKO's universal sensor platform, the MS-10S and MS-11S are easy to manage, tough, reliable, and an industry-leading option for material testing, medical research and industrial field monitoring applications.

## Features



Long-term stability,  
Low UV degradation &  
Superior build quality



Smart 4-channel  
Analog & Digital  
interface



Level A EMI/EMC  
electronics surge  
filter & protection



Internal Diagnostics  
for temperature, tilt &  
roll

## Specifications

Parameters	MS-10S (UVA)	MS-11S (UVB)
Measurement Range	0 to 150 W/m <sup>2</sup>	0 to 10 W/m <sup>2</sup>
Temperature Response (-20°C to +50°C)	<±1%	<±1%
Spectral Range	315 to 400 nm	280 to 315 nm
Spectral Error	<20%	<20%
Directional Response (0° to 70°)	<±5%	<±5%
Response Time (95%)	<0.2 sec	<0.2 sec
Non-linearity	<1%	<1%
Operating Temperature Range	-40°C to +80°C	-40°C to +80°C
Output	Modbus 485 RTU, SDI-12, 4-20 mA, or 0-1 V (100 Ω)	Modbus 485 RTU, SDI-12, 4-20 mA, or 0-1 V (100 Ω)
Power Consumption	<0.2 W	<0.2 W
Size and Weight	∅96 x 101H , 0.4 kg	∅96 x 101H , 0.4 kg

## Applications



Compatible with the optional MV-01 heater and ventilator and featuring 'S-Series' Level A EMI/EMC electronic surge filters, the MS-10S and MS-11S are designed to weather all conditions. The new industry-leading choice for meteorological and climatological observations, the MS-10S and MS-11S outperform all competing sensors at every level, ensuring the most accurate global UV radiation measurements.

Ideal for monitoring outdoor UVA and UVB irradiance, they are the best choice for various applications, including weathering research, material testing, industrial monitoring, and more.

## Explore EKO

Made in Japan for over 90 years, EKO solar energy sensors and environmental instruments are built on a legacy of innovation, an uncompromising commitment to quality, and industry-leading accuracy.

With a range of products and services to suit every project or application requirement, Explore EKO now, or get in touch to find out how EKO Instruments can help you.



Albedometers



Pyranometers



Pyrheliometers



Spectro-Radiometers



### EKO Instruments Co. Ltd

info@eko.co.jp  
+81-3-3469-6713

### EKO Instruments Sales India

sales-in@eko-instruments.com  
+91 9869047721

### EKO Instruments Europe B.V.

sales-eu@eko-instruments.com  
+31-0-703050117

### EKO Instruments Sales China

sales-cn@eko-instruments.com  
+81-3-3469-6713

### EKO Instruments USA Inc.

sales-usa@eko-instruments.com  
+1-408-977-7751

[eko-instruments.com](http://eko-instruments.com)