UV SENSOR

MS-10S, MS-11S

Next-Generation UVA & UVB Radiometers

NIST Standard Lamp Traceable

EKO Universal Sensor Design



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/m²	0 to 10 W/m²
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	Ø96 x 101H , 0.4 kg	Ø96 × 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 out-perform 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 Europe B.V.
sales-eu@eko-instruments.com
+31-0-703050117

EKO Instruments USA Inc.
sales-usa@eko-instruments.com
+1-408-977-7751

EKO Instruments Sales India
sales-in@eko-instruments.com
+91 9869047721

EKO Instruments Sales China
sales-cn@eko-instruments.com
+81-3-3469-6713

eko-instruments.com