

Pyranometer SR11

The Adcon SR11 pyranometer measures solar radiation flux in W/m^2 , incident on plane surfaces from a 180° field of view. It meets all ISO and WMO requirements for First Class pyranometers. The thermopile sensor construction, high quality optics, radiation shield and double glass dome reduce measurement errors and give the sensor a linear response over the full solar spectrum.

SR11 is designed for continuous indoor and outdoor use. To ensure proper setup Adcon delivers the SR11 by default with a stable mast mounting bracket that allows accurate horizontal installation, aided by the integrated spirit level. Low drift and uniform directional response make this instrument the ideal choice for demanding applications in meteorology, science and research.

Adcon delivers the sensor with an integrated amplifier that converts the sensors μV output into a linear 0 - 2.5V signal. The SR11 is supplied with a 4m cable and 7pin connector for easy connection to Adcons RTUs.



First Class Pyranometer SR11

Applications

- Professional weather stations
- Climate Change Monitoring
- Radiation Energy Efficiency Monitoring / PV applications
- Science and Research

Technical data

Dimensions (incl. mounting bracket)	400 x 300 x 150mm (L x H x W)	Output Signal	0 ... 2,5VDC, linear
Weight	2,550 g (incl. bracket & cable)	Power Supply	5,5 VDC ... 10 VDC
Spectral Range	305 ... 2800 nm	Operating Temperature	-40°C ... +80°C
Sensitivity (nominal)	15 $\mu V / W / m^2$	Cable & Connector	400cm, 7-pin M9 Binder male
Response Time	< 5s (63%)	Mounting	mast mounting holder for poles with 40-65mm \varnothing ; clamps included
Max. Irradiance	2000 W/m^2	Applicable standards	ISO 9060 and 9847, WMO, ASTM E824-94
Temperature Dependence of Sensitivity	< $\pm 0,1\% / ^\circ C$	Ordering Information:	
Field of view	180°	200.733.016	SR11 Pyranometer