

## Pyranometer SR11

The Adcon SR11 pyranometer measures solar radiation flux in  $W/m^2$ , incident on plane surfaces from a  $180^\circ$  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  $\mu V$  output into a linear 0 - 2,5V signal. The SR11 is supplied with a 4m cable and 7pin connector for easy connection to Adcon 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)	Field of view	$180^\circ$
Weight	2550 g (incl. bracket & cable)	Output Signal	0 ... 2,5VDC, linear
Spectral Range	285 ... 3000 nm	Power Supply	5,5 VDC ... 10 VDC
Sensitivity (nominal)	$15 \mu V / W / m^2$	Operating Temperature	$-40^\circ C \dots +80^\circ C$
Response Time	< 5s (63%)	Cable & Connector	400cm, 7-pin M9 Binder male
Max. Irradiance	$3000 W/m^2$	Mounting	mast mounting holder for poles with 40-65mm $\varnothing$ ; clamps included
Temperature Response	< $\pm 2\%$ ( $-10^\circ C \dots +40^\circ C$ )	Applicable standards	ISO 9060 and 9847, WMO, ASTM E824-94
Non-stability / year	< $\pm 1\%$	Ordering Information:	
Non-Linearity	< $\pm 1\%$ ( $100 \dots 1000 W/m^2$ )	200.733.016	SR11 Pyranometer
Tilt response	< $\pm 2\%$ ( $0 \dots 90^\circ$ at $1000 W/m^2$ )		