

Pyranometer SR20

The Adcon SR20 pyranometer measures solar irradiance and meets the WMO requirements for secondary standard pyranometers. The thermopile sensor construction and high quality optics give the sensor a linear response over the full solar spectrum and the whole hemisphere (180 degree field of view).

SR20 is designed for continuous indoor and outdoor use. To ensure accurate readings the SR20 is fitted with a sunscreen, a set of levelling feet and an integrated spirit level. The low drift and uniform directional response make this instrument the ideal choice for demanding applications.

Adcon delivers the sensor with an integrated amplifier that converts the sensor's μV output into a linear 0 - 2.5V signal. The SR20 is supplied with a 2m cable and 7pin connector for easy connection to Adcon's RTUs, and is mounted on a stainless steel mast mounting fixture.



Secondary Standard
Pyranometer SR20

Applications

- Professional weather stations
- Climate Change Monitoring
- Radiation Energy Efficiency Monitoring
- Photo Voltaic Module monitoring

Technical data

Dimensions (incl. mounting bracket)	400 x 300 x 150mm (L x H x W)	Field of View	180°
Weight	2,550 g (incl. bracket & cable)	Output Signal	0 ... 2,5VDC, linear
Spectral Range	310 ... 2800 nm	Power Supply	5,5 VDC ... 10 VDC
Sensitivity (nominal)	5 ... 15 $\mu\text{V} / \text{W} / \text{m}^2$	Operating Temperature	-40°C ... +80°C
Response Time	< 5s (63%)	Cable & Connector	200cm, 7-pin M9 Binder male
Max. Irradiance	2000 W/m^2	Mounting	mast mounting holder for poles with 35-45mm \varnothing ; clamps included
Temperature Dependence of Sensitivity	$\pm 1\%$ (from -10° ... +40°C)	Ordering Information:	
Non-Stability	$\pm 0,5\%$ per year	200.733.024	SR20 Pyranometer