

Pyranometer LP02

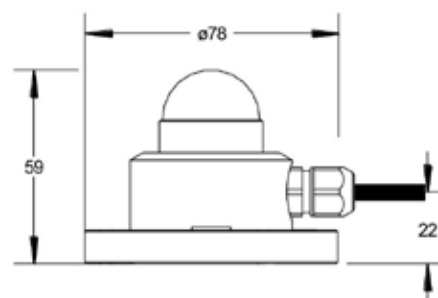
The LP02 pyranometer measures solar irradiance and meets WMO and ISO requirements for second class pyranometers. The thermopile sensor construction and high quality optics give the sensor a linear response over the full solar spectrum and the whole hemisphere (180 degree field of view).

LP02 is designed for continuous indoor and outdoor use. For proper mounting the LP02 comes with an extremely rugged and stable mounting kit, that allows for a perfectly solid and level installation, assisted by the integrated spirit level. Low drift and uniform directional response make this instrument the perfect choice for demanding applications.

Adcon delivers this sensor with an integrated amplifier that converts the sensor's μV output into a linear 0 - 2.5V signal. LP02 is supplied with a 4m cable and 7-pin connector for easy connection to an Adcon RTU.



Pyranometer LP02



Dimensions of LP02 Sensor in mm

Applications

- ✓ Professional weather stations
- ✓ Agricultural weather stations (ETo calculation)
- ✓ Photo Voltaic Module monitoring

Technical data

Dimensions (incl. mounting bracket)	420 x 355 x 150mm (L x H x W)	Field of View	180°
Weight	2,5 kg (incl. bracket & cable)	Operating Temp.	-40°C ... +80°C
Spectral Range	285 ... 3000 nm	Output Signal	0 ... 2,5V
Sensitivity	<14 $\mu\text{V} / \text{W} / \text{m}^2$	Power Supply	5,5 VDC ... 10 VDC
Response Time	< 18s (95%); < 6s (63%)	Cable & Connector	400cm, 7-pin M9 Binder male
Max. Irradiance	2000 W/m^2	Mounting	mast mounting for poles with 35-70mm \varnothing ; clamps included
Temperature response	< +/-3% (-10°C...+40°C)	Applicable Standards	ISO 9060, 9847, WMO, ASTM E824-94
Non-stability / year	< 1%	Ordering Information:	
Non-linearity	< +/-1% (100...1000 W/m^2)	200.733.019	LP02 Pyranometer w/amplifier
Tilt response	< +/-2% (0...90° at 1000 W/m^2)		