

PYRANOMETER



B (First) Class LPY-CB and C (Second) Class LPY-CC pyranometers which fully comply with ISO 9060 standards, and meet the requirements defined by the World Meteorological Organization (WMO). These are strong and reliable ground-based instruments, especially designed to be used under all weather conditions. They are suitable for installation on the field.

Recommended use: atmospheric research, weather stations, climatology, energy saving research, productive efficiency test of photovoltaic plants, etc...

Pyranometers LPY-CB and LPY-CC are well suited for the measurement of incoming global solar radiation (0.3µm ÷ 3µm spectral range)

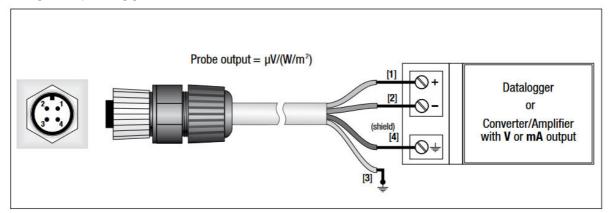
Technical Specification	LPY-CB	LPY-CC
Typical sensitivity	6 ÷ 12 μV/Wm-2	5 ÷ 15 μV/Wm-2
Measuring range	0 ÷ 2000 W/m2	
Viewing field	2π sr	
Spectral range (50%)	283 ÷ 2800 nm	300 ÷ 2800 nm
Operating temperature	-40 °C ÷ 80 °C	
Weight	0.90 Kg	0. 45 Kg
ISO 9060 Specifications		
Response time 95%	< 10 s	< 20 s
Response to thermal radiation (200Wm-2)	<10 W/m2	<15 W/m2
Response to temperature change 5K/h	< ± 4 W/m2	< ± 4 W/m2
total zero off-set including the effects a), b) and other sources	< ±15 W/m2	< ±20 W/m2
Long-term instability (1 year)	< ±1 %	< ±1 %
Non-linearity	< ±1 %	< ±1.5 %
Response according to the cosine law	< ±18 W/m2	< ±20 W/m2
Spectral error	< ±0.5 %	< ±2 %
Temperature response (-10+40°C)	< 1.5 %	< 3 %
Tilt response	< ±2 %	< ±2 %



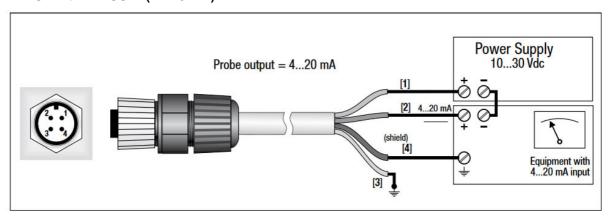
WIRING DIAGRAM



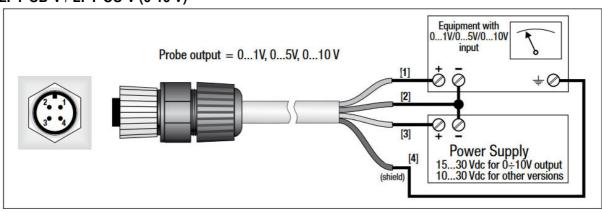
LPY-CB-MV / LPY-CC-MV



LPY-CB-A / LPY-CC-A (4...20 mA)



LPY-CB-V / LPY-CC-V (0-10 V)





LPY-CB-SB / LPY-CC-SB (4...20 mA and RS485 MODBUS RTU)

Analog 4...20 mA nd RS485 MODBUS RTU using SignalBox Pyranometer



This Pyranometer Transmitter features 4-20mA current loop and Modbus RTU protocol outputs, providing a wide range of applications and ensuring high accuracy and precision in solar radiation measurements.

- 4-20mA Current Loop: A reliable communication protocol used in standard industrial signaling.
- Modbus RTU Output: An ideal communication protocol for remote access and data collection.
- Precision Measurement: Ensures high accuracy in solar radiation measurements.

