PRODUCT DATASHEET
Supplier-provided technical data

Solar Radiation Sensor (Pyranometer)



Supplier: NiuBoL
Manufacturer model: NBL-W-HPRS
Archive SKU: NBL-W-HPRS
Price, availability, delivery and warranty: confirmed by quotation.

Solar Radiation Sensor (Pyranometer) supplied by NiuBoL. Select the required configuration and request a quotation for price and availability.

Select the required configuration for your intended monitoring task. Supplier-stated ranges and performance figures are reproduced below. Source differences require confirmation of the supplied version; no retail price, stock, warranty duration or delivery commitment is inferred.

Source documents

2026 Product Quotations from NiuBoL-Michelle.pdf — PDF page(s) 15.

Weather Stations and Agriculture Sensors Catalog-NiuBoL.pdf — PDF page(s) 24.

Supplier-stated technical data — quotation

Parameter	Supplier-stated value / source wording
Measurement range	0 ~ 2000W/m2
Spectral range	0.3-3μm
Sensitivity	7 to 14μV/w.m-2
Power supply	DC 5V/DC12V/DC24V
Output	4~20mA/0-5V/RS485
Instrument cable length	2.5 meters
Response time	≤35 seconds (99%)
Annual stability	≤±2%
Cosine response	≤7% (at solar altitude angle of 10°)
Azimuthal response error	≤5% (at solar altitude angle of 10°)
Temperature characteristics	±2% (-10°C~+40 °C)
Operating ambient temperature	-40°C~+50°C
Non-linearity	≤2%

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Parameter	Supplier-stated value / source wording
Sensitivity	7~14μV/w.m-2
Response time	≤35 seconds (99%)
Lnternal resistance	About 350Ω
Weight	2.5kg
Spectral range	0.3~3μm
Yearly Stability	±2%
Cosine Response	≤±7% (when the sun altitude angle is 10°)
Azimuth response error	≤5% (when the sun altitude angle is 10°)
Temperature characteristic	2%(-10°C~+40°C)
Working ambient temperature	-40°C~+50°C
Test Range	0~2000W/m2
Signal output	0~20mV
Non-linear	±2%
Power supply	□DC5V □DC12V □24V
Output format	□4~20mA □0~2.5V □0~5V □0~20mV □RS485