PRODUCT DATASHEET
Supplier-provided technical data

# Solar Radiation Sensor (Pyranometer)



Supplier: NiuBoL
Manufacturer model: NBL-W-SRS
Archive SKU: NBL-W-SRS
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.

## Configuration and measurement limitations

• Power-consumption claims conflict: catalogue 1.8 mW versus quotation 0.2 W. Confirm the selected sensor/transmitter configuration before power-budget calculations.

## Source documents

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

Weather Stations and Agriculture Sensors Catalog-NiuBoL.pdf — PDF page(s) 25.

## Supplier technical description

Technical specifications and configuration — supplier wording

Measurement range: 0~1500W/m2
Spectral range: 0.3~3μm.
Power supply: DC 5V/DC12-24V;
Output: 4~20mA/0-5V/RS485;
Instrument cable length: 2.5 meters;
Response time: <5s;
Cosine response : <±10% (at 10° solar altitude angle);
Non-linearity: <±2%;
Annual variation rate : <±2%;
Operating environment: -20°C~65°C/≤ 100%RH;
Product weight: 420g for sensor, 760g with transmitter;
Power consumption: 0.2W;

## Catalogue page 25 — technical data

| Parameter | Supplier-stated value / source wording |
|---|---|
| **Measuring range** | 0~1500W/m2 |
| **Working environment** | Temperature -20°C~65°C, humidity≤100%RH |
| **Power supply** | □DC5V □DC12V-24V |
| **Output format** | □4~20mA □0~2.5V □0~5V □RS485 |
| **Product power consumption** | 1.8mW |
| **Spectral range** | 0.3~3μm |
| **Response time** | <5s |
| **emperature dependent** | <±0.08%°C |
| **emperature characteristic** | 2%(-10°C~+40°C) |
| **Cosine Response** | <±10% (when the sun altitude angle is 10°) |
| **Nonlinear** | <±2% |
| **Annual rate of change** | <±2% |
| **Product weight** | Sensor 420g with transmitter 760g |
| **Line length** | 2.5m |

## Catalogue page 25 — selection / wiring table

| Parameter | Supplier-stated value / source wording |
|---|---|
| **Model** | P \| ower supply \| output met \| hod \| Description |
| **NBL-W-SRS** | Total radiation sensor |
| **12V-24V** | 12-24V power supply |
| **NBL-W-SRS — V** | 0-5V |
| **NBL-W-SRS — V2** | 0-2.5V |
| **NBL-W-SRS — A1** | 4-20mA |
| **NBL-W-SRS — W2** | Rs485 |
| **Supplier statement** | Example: 12V-24V-A1: total radiation sensor<br>12V-24V power supply, 4-20mA current signal output |