PRODUCT DATASHEET
Supplier-provided technical data

Photosynthetically Active Radiation Sensor(PAR Sensor)



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

Photosynthetically Active Radiation Sensor(PAR Sensor) 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

• Operating-temperature upper limit differs: catalogue 60 °C versus quotation 65 °C; lower limit is -40 °C in both.

• The supplier states range in W/m2 while expressing sensitivity in photon-based units. Confirm output units and calibration basis; do not assume the output is PPFD in µmol/(m2·s).

Source documents

2026 Product Quotations from NiuBoL-Michelle.pdf — PDF page(s) 9.

Weather Stations and Agriculture Sensors Catalog-NiuBoL.pdf — PDF page(s) 20.

Supplier technical description

Technical specifications and configuration — supplier wording

Spectral range: 400~700nm
Range: 0-2000 W/m2
Power supply mode: DC 12V-24V
Output : Voltage: RS485
Instrument cable length: 2.5 meters
Response time: about 1s (99%)
Temperature dependent: max. 0.05%/°C
Cosine correction: up to 80° incident angle
Working temperature: -40-65°C
Relative humidity: 0~100%RH
Sensitivity: 5~50µv/µmol·s1
Internal resistance: <2K

Catalogue page 20 — technical data

Parameter	Supplier-stated value / source wording
Measuring range	0~2000W/m2
Spectral range:	400-700nm
Power supply	□DC12V-24V
Output	□0~2.5V □0~5V □RS485
Working environment	Temperature -40°C~60°C, humidity≤100%RH
Cosine correction:	up to 80° angle of incidence
Response time	approx. 1s (99%)
Temperature dependence:	max 0.05%/°C
Sensitivity:	5~50μv/μmol-s1
Internal resistance:	<2K
Line length	2.5m

Catalogue page 20 — selection / wiring table

Parameter	Supplier-stated value / source wording
Model	P | ower supply | output met | hod | Description
NBL-W-PARS	PAR sensor
12V-24V	12-24V power supply
NBL-W-PARS — V	0-5V
NBL-W-PARS — V2	0-2.5V
NBL-W-PARS — W2	Rs485
Supplier statement	Example: 12V-24V-W2: PAR sensor 12V-24V power supply, RS485 signal output