PRODUCT DATASHEET
Supplier-provided technical data

9 in 1 Ultrasonic Integrated Sensor



Supplier: NiuBoL
Manufacturer model: NBL-W-91GUWS
Archive SKU: NBL-W-91GUWS
Price, availability, delivery and warranty: confirmed by quotation.

9 in 1 Ultrasonic Integrated 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

• The quotation explicitly makes solar radiation and illuminance alternatives. Select one of these light channels; both are not included simultaneously in the quoted configuration.

Source documents

2026 Product Quotations from NiuBoL-Michelle.pdf — PDF page(s) 8.

Weather Stations and Agriculture Sensors Catalog-NiuBoL.pdf — PDF page(s) 14.

Supplier-stated technical data — quotation

Parameter	Supplier-stated value / source wording
Wind speed	0~60m/s Accuracy: ±0.3+3%
Measurement range — Resolution	FS 0.01m/s
Wind direction	0~359° Accuracy: ±3°
Measurement range — Resolution	1°
Temperature	-40~80 Accuracy: ±0.5 °C °C
Measurement range — Resolution	0.1 °C
Humidity	0~100%RH Accuracy: ±5%RH
Measurement range — Resolution	0.1%RH
Air pressure	10~1100hPa Accuracy: ±1.5hPa
Measurement range — Resolution	0.1hPa
Rainfall	0~8mm/min Accuracy: ±10%
Measurement range — Resolution	0.01mm
PM2.5	0~1000ug/m3Accuracy: ±10%
Measurement range — Resolution	1ug/m3
PM10	0~2000ug/m3Accuracy: ±10%
Measurement range — Resolution	1ug/m3
Radiation	0~1500W/m2 Accuracy: ±10%
Measurement range — Resolution	1W/m2
illuminance	0~200000 Accuracy: Lux±7%
Measurement range — Resolution	10Lux
Power	DC12V-24V Output: RS485
Notes	Solar radiation sensor and illuminance sensors are for either one or the other.

Catalogue page 14 — technical data

Parameter	Supplier-stated value / source wording
Power supply	DC12V-24V
Signal output	Rs485
Baud rate	9600
Communication protocols	MODBUS protocol
Operating temperature	-40-80°C
Working humidity	0-95%RH
Standard cable length: 2.5m,	Material: ABS, protection grade: IP65
Supplier statement	Measurement range
Wind speed	Measuring range | 0-60m/s
Wind speed — Measurement accuracy	±0.3+3%FS
Wind speed — Resolution	0.01m/s
Wind direction	Measuring range | 0-359°
Wind direction — Measurement accuracy	±3°
Wind direction — Resolution	1°
Temperature	Measuring range | -40-80°C
Temperature — Measurement accuracy	±0.5°C
Temperature — Resolution	0.1°C
Humidity	Measuring range | 0-100%RH
Humidity — Measurement accuracy	±5%RH
Humidity — Resolution	0.1%RH
Pressure	Measuring range | 10-1100 hPa
Pressure — Measurement accuracy	±1.5 hPa
Pressure — Resolution	0.1 hPa
Illumination	Measuring range | 0~200000Lux
Illumination — Measurement accuracy	±7%
Illumination — Resolution	10Lux
PM2.5	Measuring range | 0~1000ug/m3
PM2.5 — Measurement accuracy	±10%
PM2.5 — Resolution	1ug/m3
PM10	Measuring range | 0~2000ug/m3
PM10 — Measurement accuracy	±10%
PM10 — Resolution	1ug/m3

Parameter	Supplier-stated value / source wording
Rainfall	Measuring range | 0~8mm/min
Rainfall — Measurement accuracy	±10%
Rainfall — Resolution	0.01mm
Radiation	Measuring range | 0~1500W/m2
Radiation — Measurement accuracy	±10%
Radiation — Resolution	1W/m2