

Specifications Sigrow Pixel 2023

Sigrow BV

Ede, The Netherlands



**Sense. Discover. Improve.**

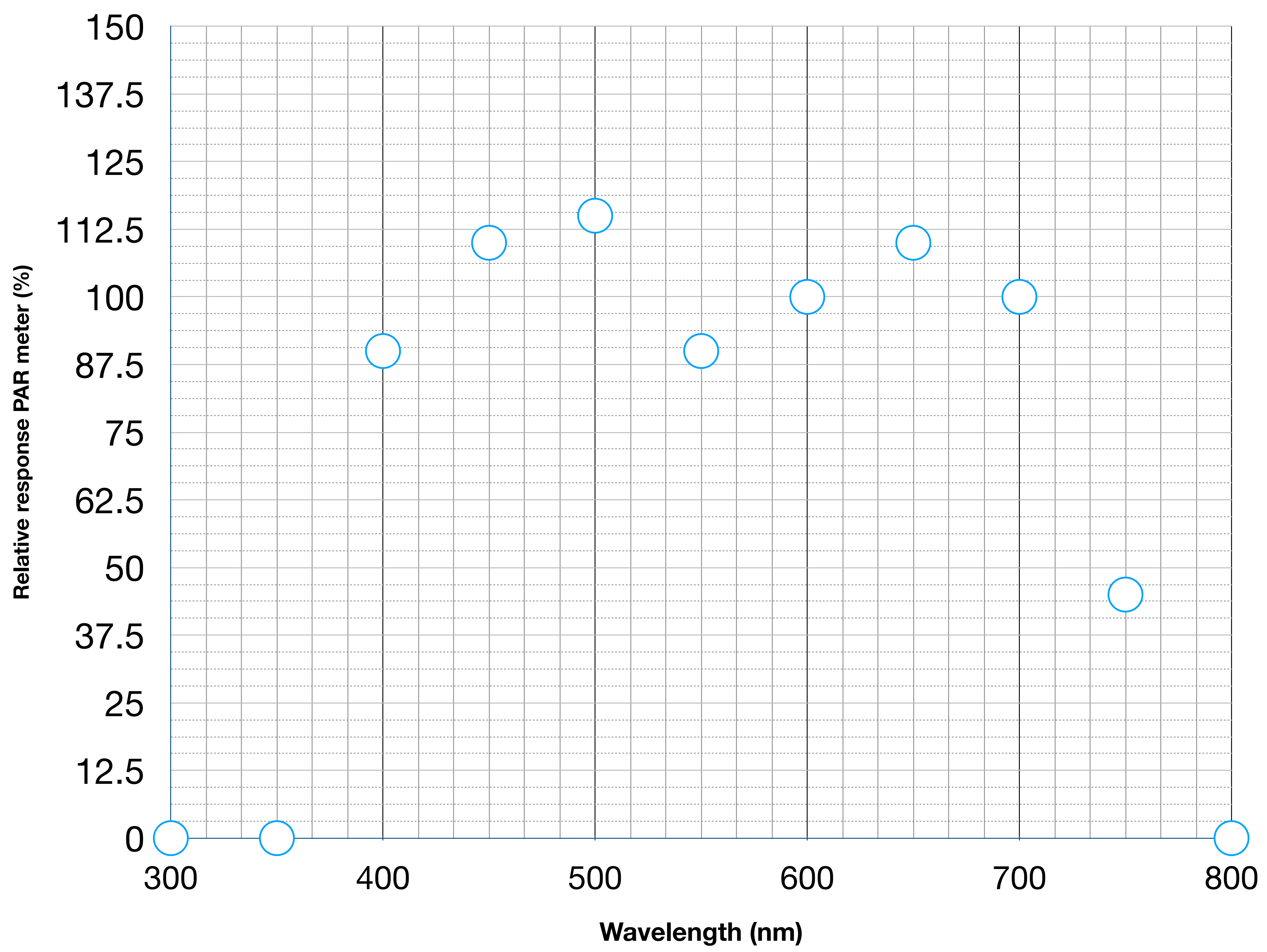
Name	Sigrow Pixel
Main body dimensions (Height x Width x Length)	Body without solar panel: 135.2 x 92.3 x 82.1 mm Including solar panel: 135.2 x 92.3 x 165 mm
Goose Neck length	300 mm
Solar + Ventilated + Lithium Ion battery	Yes <i>with Ti nano-harvest® technology,            works under any light source.</i>
Measurements	PAR Air Temperature, Air dew temperature, Air Relative Humidity, Air Absolute Humidity, Plant VPD, Plant Temperature
Sampling time	5'
Required components	Sigrow® CNv5 wireless 4G Gateway within 1000 meters
Lead time	4 weeks from purchase for up to 30 devices
Communication Frequency	868 MHz / 911 MHz depending on country ISM Free Band
Absolute maximum radio range (no obstacles)	1000 meters
Battery life	+3 years
Enclosure rating	IP64



Variable	Accuracy	Resolution	Unit	Manufacturer
<b>PAR</b>	See next page	1	umol/m2/s	Sigrow
<b>Air temperature</b>	0.3°C†	0.01	°C	Sensirion SHT21(§)
†Maximum temperature error due to sun irradiation without ventilation	0.75°C @ 100 umol/m2/s 2.5°C @ 400 umol/m2/s			
<b>Air Dew Point Temperature</b>	±5%	0.01	°C	Calculated from Air temperature and relative humidity
<b>Air Relative Humidity</b>	3% @ RH<80% 4% @ 80%<RH<90% 5% @ 90%<RH<100%	0.01	%	Sensirion SHT21(§)
<b>Air Absolute Humidity</b>	±5%	0.1	G/m3	Calculated
<b>Plant Temperature</b>	±0.3°C	0.01	°C	Melexis
<b>Plant Vapour Pressure Deficit (VPD)</b>	±0.1KPa	0.01	KPa	<i>Calculated</i>
Calibration period recommended	PAR: 12 months Air temperature / Humidity: 24 months Plant temperature: 24 months			

(§) **Higher accuracy Relative Humidity.** For Het Nieuwe Telen (HNT) / Plant empowerment techniques, where growing at high relative humidities (VPD < 1KPa) is part of the strategy, it is possible to upgrade the Air temperature / Relative Humidity (RH) integrated circuit to Sensirion SHT25 with RH accuracy = 2% @ 90%<RH; 3% @ 90%<RH<100%.





Sigrow PAR response is adjusted to McCree photosynthetic response curve

