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INDUSTRIAL PRODUCT DATASHEET

SenseCAP Wireless Light Intensity Sensor - LoRaWAN AU915 MHz

LoRaWAN light intensity sensor with 22-bit dynamic range, 10km range, and 8-year battery life for outdoor wireless sensing applications.

SKU	UPDATED	PRICE
114992649	2026-04-15 10:18:20	$101.00(Excl. VAT)



Overview



The SenseCAP Wireless Light Intensity Sensor supports LoRaWAN Class A protocol with an ultra-wide 22-bit dynamic range and ultra-wide transmission distance up to 10km in line of sight (2km in urban scenes). It offers ≥8 years battery life, an IP66 enclosure for outdoor applications, and rapid installation, making it suitable for smart agriculture, smart building, and environmental monitoring.

Key Features

- Support LoRaWAN protocol Class A
- High reliability and stability
- An ultra-wide 22-bit dynamic range
- Ultra-wide-distance transmission: 10km in line of sight scene, 2 km in urban scenes
- Transmission Interval: every 1 hour
- Battery life ≥ 8 years
- IP66 enclosure, suitable for outdoor applications
- Rapid installation and deployment (see the video below)

Specification

Air Temperature	
Range	0 to 188000 Lux
Sensitivity	0.045 Lux/LSB
Resolution	0.045 Lux
General Parameters	
Product Model	LoRa-S-AU915-Light Intensity-01
Microcontroller	Ultra-low-power MCU
Support Protocol	Based on LoRaWAN v1.0.2 protocol
LoRa Channel Plan	AU915
LoRa Power Output	16 dBm (EIRP)
Sensitivity	-137.5dBm(SF12, BW125KHz)
Current Consumption	5 μA (sleep mode) 120 mA max(active mode)
Communication Distance	2 to 10 km (depending on different antennas and environments)
IP Rating	IP66
UV Resistance	anti-aging (from rain/sun exposure): UL746C F1
Enclosure Material	PC
Operating Temperature	-40 ℃ to +85 ℃
Operating Humidity	0 to 100 %RH (non-condensing)
Device Weight	288g
Certification	CE, FCC, RoHS
Battery (Contained in equipment)	
Battery Life	≥ 3 years (upload data once per hour)
Battery Voltage	3.6V
Battery Capacity	19Ah (non-rechargeable)

Applications

- **Smart Agriculture**
- **Smart Building**
- **Environmental Monitoring**
- **Other Wireless Sensing Applications**

Part List

Part List		
1	Sensor	x1
2	Bracket	x1
3	M4 Self-drilling Screw	x4
4	M3 Self-drilling Screw	x2

Compliance & Logistics



HSCODE	9031499090
USHSCODE	9031499000
UPC	
EUHSCODE	9013101000
COO	CHINA

Resource Links

- https://www.seeedstudio.com/SenseCAP-LoRaWAN-Light-Intensity-Sensor-LoRaWAN-AU915-p-4978.html
- LoRaWAN Gateway and Wireless Sensor Catalog V1.7
- SenseCAP LoRaWAN Sensor User Manual V1.1
- SenseCAP Product User Guide(LoRaWAN Series) V1.3
- SenseCAP Document Center

Seeed Technology Co.,Ltd.
9F, Building G3, International E City,
Zhongshanyuan Road, Nanshan, Shenzhen, China

Tel: +86 0755-80695676
Web: www.seeed.cc
Shop: www.seeedstudio.com