

# Atomsenses Light Sensor

## Product Specification

### Applicability

This guide applies to the following Atomsenses products, unless otherwise specified:

Model	Description
AS-AN308	- LoRaWAN Light Sensor

### Declaration of Conformity

Atomsenses sensors and other products comply with the essential requirements and relevant provisions of CE/EMC, and RoHS standards.



## Hardware Introduction

This is an advanced wireless illuminance sensor based on LoRa technology, featuring low-power sleep-wake functionality and excellent battery life, simplifying the installation process with the convenience of wire-free deployment. Its unique photometric technology ensures high linearity and precise measurement in low light ranges, making it particularly suitable for indoor and obstructed environments.

With LoRa technology's high anti-interference capabilities, long communication range, and strong penetration power, it is an ideal choice for IoT environmental monitoring in various fields such as agricultural greenhouses, smart breeding, smart homes, smart buildings, smart transportation, and industrial monitoring.

## Features

- Supports LoRaWAN
- Supports tamper-proof alarms and low-voltage detection;
- Supports P2P wireless configuration;
- Built-in 4000mAh battery;
- Measurement Range: 0~65535LUX;
- Accuracy:  $\pm 7\%$ .
- GDPR Compliant

## Device Appearance



## Technical specifications and standards

Item	Description
Communication Protocol	LoRaWAN
Antenna	Built-in LoRa Antenna
Tx rate	300bps-5.4Kbps
Frequency Bands (optional)	CN470/IN865/RU864/EU868/US915/AU915/KR920/AS923-1&2&3&4
Maximum Tx power	19dBm
Rx sensitivity	-141dBm(SF=12)
Detection Range	8-10m
Detection Angle	50°~60°
Installation height	1.5m~2.0m
Working temperature	-10°C- +55°C
Working humidity	10%-95% (no condensing)
Battery type	2xBuilt-in Li-SOCL2 4000mAh battery
Standby Current	≤10uA
Detection Current	≤25uA
Tx Current	≤125mA
Protection level	IP65
Installation Method	Wall-mounted, Ceiling-mounted
Dimensions	Sensor box:114x89x56mm ; ultrasonic sensor :119*119*40mm
Weight	900g
Material	ABS

