

# LASER DISTANCE SENSOR-ATRS0038

## Overview

ATRS0038 Laser Distance sensor is a long range wireless sensor which can be used in a variety of applications for measuring distances between the sensor and objects in its path. It can measure absolute distances up to 2m. This sensor is compatible with LoRaWAN technology. The standard version of this sensor is powered by one replaceable 3.6 V AA sized battery (included with purchase).

## Key Features

- Real plug & play
- Easy to mount & install
- Compatible with LoRaWAN™ specification
- Maintenance free – install & forget
- Secure communication
- Ultra Low Power Consumption
- Certifications: LoRaWAN™, CE



## Communication Specs

- The sensor uses Low Power Wide Area Network-LPWAN technology(LoRa) for connectivity
- Compliant with AS923, AU915, EU868, KR920, IN865 or US915 MHz ISM bands
- Low power consumption
- Long range wireless data transmission(upto 15km)
- Antenna Types: Internal(default) or External(depend on request) Antenna
- Radio Performance : Upto +14 dBm TX power and -137 dBm RX sensitivity

## Mechanics

- Housing: ABS
- Dimensions: 65 x 55 x 27 mm
- Operating temperature: -40°C to +85°C

## Data Security

- AES-128

## Power Supply

- AA Battery 3.6 V Li-SOCl<sub>2</sub>-Saft LS 14500 (Standard 1 piece)

## Indicators

- RGB Status LED (on board)

## Sensor Specifications

Measurement Range	:	Up to 2 m
Infrared emitter	:	940 nm
Data Transmission Period	:	Every hour(default)

## Certifications & Reliability

- LoRaWAN™ Certified
- CE
- EN 62479

- EN60950
- EN 301 489-1
- EN 301 489-17
- EN 300 328

## Applications

- Distance measurement applications
- Obstacle detection