

# LoRaWAN Sensors Transceiver

## Highlights

- Ready to use transceiver
- LoRaWAN V1 network protocol
- 0-10V, 4-20mA & I/O interfaces
- Range up to 10 km
- Up to 2 sensors by transmitter
- Up to 10 years of autonomy on battery
- IP67 enclosure



**LoRa Alliance**

The **LoRaWAN SENSORS** from Adeunis RF is a ready-to-use **radio transceiver** allowing to **transform any type of 0-10V, 4-20mA & I/O sensor into a Wireless Sensor**.

This product meets the needs of users looking to **remotely monitor the data** of all kinds (temperature, pressure, level, humidity, CO<sub>2</sub>, speed, brightness, opening ...)

The **LoRaWAN SENSORS** provides connection to the any operated network using the LoRaWAN protocol.

**Two sensors can be supported** by a single LoRaWAN SENSORS transmitter allowing a **significant reduction of costs of implementation**.

The configuration of the transmitter can be done **via radio** allowing the choice of **sensors interface, periodicity or data encryption**.

Powered through a Lithium battery, it allows an autonomy guaranteed up to **10 years\***.

## Performances

RF power: 14dBm (25mW)  
RF sensitivity: up to -140dBm  
Range: up to 10km

## Firmware

LoRaWAN V1 network protocol  
Transmission cycles: 10mn, 1h, 12h or defined by network  
History of data  
Data encryption: AES128

## Warnings

Battery end of life

## Consumption & needs

Operating voltage: 3.6V nominal  
Power supply: through Li-SOCI<sub>2</sub> battery  
Lifespan: up to 10 years

## Compatibility

Any kind of 0-10V, 4-20mA & I/O sensor

## General information

Operating temperature: -20°C / +75°C  
Integrated fixation systems: DIN-Rail, tube, wall, necklace  
Dimensions: 105 x 50 x 27 mm  
Weight: 80gr  
Housing: IP67 (IP68 on demand)  
Standards: EN 300-220, EN 301-489, EN 60950

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## References

- **ARF8045PA** LoRaWAN SENSORS

\* The LoRaWAN SENSORS enables the transmission of sensor data but won't power it (except I/O version)

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