# AMBIENT SENSOR

# **AMR - Wireless M-Bus**



# **Highlights**

- Radio transmission of ambient temperature
- Wireless M-Bus protocol
- Range up to 300m
- LCD display
- Remote sensor version
- Up to 11 years of autonomy







The AMR Ambient Sensor from Adeunis RF is a ready-to-use room temperature transmitter.

The radio data transmission is conform to the Wireless M-Bus protocol which allows the integration of the Sensor into an architecture of consumption data collection.

The AMR Ambient Sensor from Adeunis RF is one of the most compact room temperature sensors, allowing discrete integration, even in individual units.

It is equipped with a **LCD screen**, displaying the real-time temperature measured for an immediate reading of values.

The Lithium battery allows a 11-year autonomy guaranteed with a periodicity of sending a measurement every 4 minutes, the display being refreshed every 2 minutes.

The AMR Ambient Sensor from Adeunis RF is also available in remote sensor version. In this case, the two measured temperatures (internal and external probe) are displayed and sent simultaneously.

The radio emission of this data may also be protected by **AES128** encryption compliant with the **OMS standard**.

As for our AMR WMBUS range of products, the Ambient Sensor ensures a full compatibility with EN 13757-4: 2005 standard.

# **Performances**

RF radiated power: 10dBm (10mW)

Range: up to 300m Frequency: 868.95MHz

Wireless M-Bus mode: T1 (other on option)

RF data rate: 100kbps

#### **Firmware**

Measured temperature: from -30° to 85°C Precision: 0.1 to 0.5°C Measures history (management) AES128 encryption compliant OMS mode 5 (option)

## **Warnings**

Fraud detection (product opening) Battery end of life

#### **Comsumption & needs**

Max TX consumption: 35mA Operating voltage: 2 to 3.3 V Power supply: Li-MnO2 battery Lifespan: 11 years of operation

### **General information**

Storage temperature: -40°C / +85°C Dimensions: 78 x 39 x 30 mm

Standards: EN300-220, EN301-489, EN13757-

4:2005, OMS 3.0.1

### References

- **ARF8054AA** AMR AMBIENT SENSOR
- **ARF8054BA** AMR AMBIENT REMOTE SENSOR
- ARF8055AA AMR AMBIENT SENSOR / AES-OMS
- **ARF8055BA** AMR AMBIENT REMOTE SENSOR / AES-OMS

