

# AMR - Sensors Wireless M-Bus

## Highlights

- Wireless M-Bus transmission of sensor data
- 0-10V, 4-20mA & I/O interfaces
- Product configuration via radio
- Up to 2 sensors by transmitter
- Range up to 600m
- Up to 12 years of autonomy on battery
- IP67 enclosure

The «**AMR SENSORS**» from Adeunis RF is a ready-to-use **radio transmitter** 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, CO2, Speed, Brightness, opening ...)

Using the **Wireless M-Bus protocol** allows to integrate **AMR SENSOR** into any already deployed network or create its own ecosystem from the **AMR product range of Adeunis RF**.

## Performances

RF power: 14dBm (25mW)  
RF sensitivity: up to -117dBm  
Range: up to 600m

## Firmware

Wireless M-Bus modes: T, R, S, C  
Transmission cycles: 10sec, 10mn or 12h  
History of data  
Data encryption: AES128

## References

- **ARF8041AA** AMR SENSORS



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

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

Power through Lithium battery allows autonomies guaranteed up to **12 years in T1 mode with a period of 10mn\***.

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

## Warnings

Battery end of life

## Consumption & needs

Operating voltage: 3.6V nominal  
Power supply: through Li-SOCI2 battery  
Lifespan: up to 12 years guaranteed

## 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  
Housing: IP67 (IP68 on demand)  
Standards: EN 300-220, EN 301-489, EN 60950, EN 13757-4:2005