Radio Modem - AMR

Water & Gas meters

Wireless

▶ Highlights

- Radio transmissions of meter data
- Installation is extremely simple and fast
- Up to two meters per modem
- Range up to 1000m in W-MBus version
- Up to 12 years of autonomy on battery
- IP65 and ATEX standards

▶ Description

The radio modem AMR (Automatic Meter Reading) from Adeunis RF is a ready-to-use system, allowing to **transmit data from water & gas meters**.

The connection to the meters is **simple** via a system compatible to pulse interfaces. The configuration is **intuitive** through mechanical switches.

Two meters can be supported by a single Radio Modem AMR, allowing a **significant reduction of costs of implementation and deployment**.

The radio modem AMR is compatible with Water & Gas meters such as Itron, Elster, Sappel...

Power is supplied through various types of Lithium batteries, allowing up to **12 years of autonomy guaranteed**.

This version **embeds an application** to adjust the data transmission cycle, manages a history of consumption, to inform about leaks and alert on frauds.

As an **expert of radio frequency products**, Adeunis RF offers through its modules catalog, many royalty free frequencies: **169MHz, 434MHz, 458MHz, 868MHz** ... ensuring the transmission of data over distances ranging from a few hundred meters to several tens of kilometers.

Our **W-MBus** solution provides a full compatibility with EN 13757-4: 2005 standard. In terms of security, our product complies with **ATEX standard.**

▶ Specifications

W-Mbus version performances
- RF Power : 14dBm (25mW)
- Sensitivity : up to -117dBm
- Range : up to 1000m line of sight

Applicative software
- Transmission cycles : 10sec, 10mn or 12h
- History of consumptions

Alerts
- Leak detection (high and low discharges)
- Frauds detection
- Water reflow
- Battery end of life

Consumption & needs
- Voltage : 3.6V nominal
- Power supply : through Li-SOCI2 battery
- Lifespan : up to 12 years guaranteed

Compatibility
- Sappel Izar, Itron Cyble, Itron Gallus 2000, Elster BK

General information
- Operating temperature : -40°C / +85°C
- Dimensions: 145 x 100 x 40 mm
- Housing : IP65
- Standards: EN 300-220, EN 301-489, EN 60950, EN 13757-4:2005
  Can be certified ATEX standard : II 2 G EEx i II A T4

▶ Reference

ARF7883AA   Radio Modem AMR «Pulse»

V3.0

283 rue Louis Néel - Parc technologique Pré Roux - 38920 CROLLES - France
Sales department: +33 (0)4 76 92 07 77 - Fax : +33 (0)4 76 04 80 87 - E-mail : arf@adeunis-rf.com - www.adeunis-rf.com

RF
Adeunis
Wireless products & solutions