Enless Wireless
M2M & IoT Wireless Expert

v 1.4

169MHz Wireless M-Bus

TECHNOLOGY

M-Bus wireless

169MHz Wireless M-Bus technology

The 169MHz frequency range knows a growing success in France and in Europe.

It is based on a VHF Multi-Channel technology.

The Wireless Mbus protocol is widely used by the energy sector for the communication of smart meters.
It is distingued for the quality of its radio coverage, the facility of association with other technologies and the easy deployment of the equipments.

Enless Wireless provides a complete transmitters, receivers and repeaters product range as 169MHz Wireless Mbus.

Large buildings monitoring

The 169 MHz Wireless Mbus technology is adapted to large buildings monitoring (industrial sites...)

500 mW

Output power of the transmitters is 500 mW.

2,5 kilometres in an open field

The distance in an open fiel is approx. 2,5 kilometres. Repeaters can increase this distance.

Easy to deploy

Enless Wireless products have been designed for easy and rapid deployment.

Low energy consumption

The transmitters' battery life can exceed 10 years.

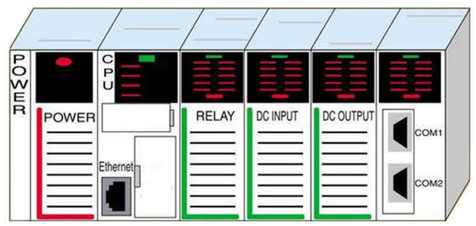
Typical set-up

The 169MHz Wireless Mbus product range operates in local mode.

The transmitters are communicating via the 169MHz radio frequency range and Wireless Mbus protocol to a Modbus receiver. The Modbus receiver is connected to a PLC in RS232 or RS485.

Modbus

RS232 / RS485



Installation

In this example, Enless Wireless transmitters communicate with a Modbus receiver.

The transmitters are installed in different rooms of the building.

• An ambient temperature transmitter is installed.

• A pulse transmitter is counting pulses from a water meter.

• A contact transmitter is reporting a door status (open / closed).

• A Modbus receiver is connected to a PLC. It receives data from the transmitters.