



Sensors



Switches



Controls

Application notes



Application Note : December 2019

Market involved : Conventional energy

Product : EM24 W1

Customer : Energy service companies

Subject : Fiscal sub-metering in apartments

CUSTOMER ISSUE :

When water or heating sub-metering is required, service companies often propose a solution based on wireless M-Bus devices, widely used on the market and well known as a standardised and reliable technology.

When electrical energy sub-metering is also needed, service companies are forced to use wired communication technologies, such as Modbus RTU or wired M-Bus or, as an alternative, to build the system using an energy meter and a wireless M-Bus gateway.

The final result is higher installation and commissioning costs, due to the complexity of the system.

OUR SOLUTION :

The EM24 W1 is a DIN rail energy meter with embedded wireless M-Bus communication, the only one on the market today.

The standard wireless technology guarantees interoperability with existing data collectors, also thanks to the OMS compliant protocol, avoiding complexity in to the system.

The available MID certified version is the right choice when fiscal metering is required.

BENEFITS :

- Water meter or heating meter manufacturers can extend their offer by proposing the EM24 W1 when a complete metering solution is required
- Service companies are able to fulfill the need of the final user using the same technology and acquisition system for any type of meter, thus increasing their business opportunities
- The antenna, completely embedded and invisible, is the ideal solution in domestic applications, mainly for space reasons but also to avoid the psychological perception of having a further wireless signal at home
- The EM24 W1 is also available with an external antenna, when concrete walls or metallic panels/ doors (for instance in the basement) are not allowing the meter's wireless signal to reach the receiver