IWM-TX3

Wireless M-BUS OMS module for multi jet meters with inductive interface

IWM-TX3 has been designed to allow wireless remote reading in different types of applications from the residential sector to the commercial and industrial sectors.

The radio module thanks to the presence of the inductive target into the meter dial allows the reading of the volume consumption without any constraints of access to the site in walk-by mode or AMR (automatic meter reading), in respect of the WMBUS standard and complying with the OMS (Open metering system) specification.

Consumption analysis with reverse flow compensation that provides an always perfect alignment between the totaliser and the meter.

Fraud control (removal of the radio module, application of external magnetic field, reverse flow, identification of system loss). Magnetic tampering to the meter and removal are recorded and reported to the receiving system via radio transmission. The presence of reverse flow is recorded in an additional register that allows to calculate the amount of water passed in reverse. The loss function can be monitored at the time of reading or by the AMR system if a timely update is desired.

IP68 protection* allows the use of the module also for meters installed in difficult environments.

NFC interface allows configuration and commissioning of the device with the use of a simple smartphone app.

TECHNICAL FEATURES

Radio interface	WMbus EN13757-4 @868 MHz ≤ 25 mW, mode T1
Coverage	500 meters*
Compatible water meters	GMDM-I, GMB-RP-I, GMB-I
Pulse output minimum value (K)	1 litre
Configuration	Via radio (with RFM-RX2 and software B Metering), NFC (with Android app)
Energy supply	30 x 67 x 67 mm
Weight	43g
Configuration	Non-replaceable lithium battery, maximum lifetime 10 years**
Protection class	IP68***
Weight	124 g
Size (l x p x h)	88 x 75 x 60 mm
Working temperature	+1° / +55°C
Transmitted data	Volume (consumption), total of backward flow, 12 monthly historical values, battery status, alarms
Alarms	Discharged battery, module removal, magnetic fraud attempt, backward flow, leakage detection
Module programming requirements	Android device (smartphone, tablet, etc.) with an NFC interface and the NFC IWM Config APP freely downloadable from GOOGLE PLAY RFM-RX2 receiver and Windows PC with B Metering software installed

 * In optimal signal transmission conditions

** The battery life strongly depends on the working time window, set during the configuration process, and on the environmental conditions
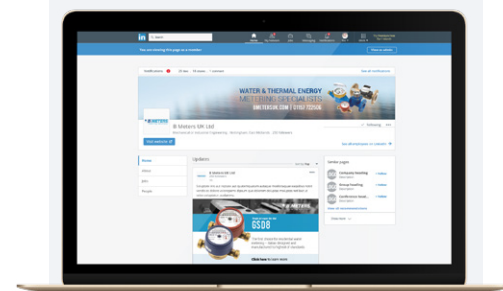
*** IP68: maximum 24 hours of continuous submersion at 1 m depth

DESIGNING, PRODUCING AND DISTRIBUTING SOLUTIONS FOR OVER 25 YEARS

B METERS is an Italian company that has been designing, producing and distributing instruments and solutions for measuring the consumption of water and thermal energy used for heating and cooling, for over 25 years.

The yearly production currently exceeds 2M units, putting B METERS in a leading position both at national and European level.

The product range includes turbine (velocity) type single and multi-jet water meters with mechanical or magnetic transmission, Woltmann meters, irrigation meters, flow meters, thermal energy meters and heat cost allocators with direct reading, or complete with integrated modules for the remote transmission of the consumption data.
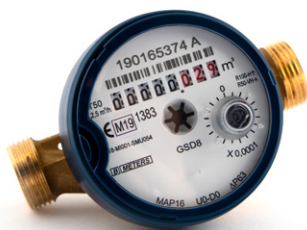

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