B METERS

Water Metering Solutions

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YOU CAN'T MANAGE WHAT YOU DON'T MEASURE

WATERWARE

waterware.co.nz

SMART BUILDINGS

Managing water consumption in a multi-user environment such as a residential apartment block is critical to ensure water charges are accurately allocated to tenants.

Waterware's HYDROLINK wireless water meter system does just this – effective measurement of water consumption.

The system enables the remote collection and transmission of data recorded by the meter via a wireless network. The solution provides for a range of transmitting and receiving hardware options from simple 'walk by' to fully automated GPRS transmission solutions.

The solution offers a range of benefits including:

• Significant time and cost saving over more traditional manual recording systems
• Leak detection
• Fraud /attempted tamper alarm
• Error free data reading and transcription
• Direct export data in excel format
• Easy to use software

The HYDROLINK system uses the M-BUS wireless transmission protocol and will piggy back 3rd party power and or gas reading equipment on the same system.

With over 12,000 water meters sold in the past 3 years and currently 335 active systems operating across various sites, the HYDROLINK system provides a reliable and proven solution.

WHY BMETERS

B Meters offers a wide range of water meters and heat meters designed to accurately measure consumption and provide various benefits:

1. Accurate measurement: B Meters' products are designed to provide precise and reliable measurement of water or energy consumption. Accurate metering helps ensure that customers are billed correctly and allows for better monitoring and management of resources.

2. Wide product range: B Meters offers a diverse range of water meters and heat meters to cater to various applications and requirements. This includes different metering technologies, such as volumetric, ultrasonic, and electromagnetic meters, allowing customers to choose the most suitable option for their specific needs.

3. Durability and longevity: B Meters aims to manufacture high-quality and durable metering devices that can withstand different environmental conditions and provide long-term service. Robust construction and materials contribute to the longevity of their products.

4. Compliance with standards: B Meters' products are designed and manufactured to meet international standards and regulations, ensuring that they adhere to recognized industry guidelines and legal requirements. This compliance enhances reliability and accuracy.

5. Easy installation and maintenance: B Meters strives to provide user-friendly products that are easy to install and maintain. Simple installation processes and accessible maintenance procedures can save time and effort for both customers and technicians.

6. Data management and integration: Some metering solutions offered by B Meters may come with features for data collection, management, and integration. This can enable customers to monitor their consumption patterns, identify potential leaks or inefficiencies, and optimize resource usage.

7. Cost savings and efficiency: Accurate metering and monitoring of water and energy consumption can help customers identify areas of waste or excessive usage, leading to potential cost savings and improved efficiency in resource management.

These features and benefits are intended to support customers in effectively managing their water and energy consumption, enabling accurate measurement, cost savings, and better sustainability practices. For more detailed information, speak to a water metering expert at Waterware today!

Note: Waterware can provide a Concentrator with convertion signal from M-BUS to Modbus MODBUS. Please contact us on 0800 WATERWARE for more information.

01 WIRELESS TRANSMITTER

RFM-LR1 is a LoRaWAN radio module suitable for the consumption data transmission and applicable to the single jet GSD8-RFM water meters.

The radio module thanks to the presence of the optical target into the meter dial allows the reading of the volume consumption without having to access the site where it is installed.

RFM-LR1 thanks to the Long Range LoRa radio technology and the compliance to the LoRaWAN standard can be integrated into multi-service networks.

02 BMETERS - MBUS READY (HOT & COLD)

Sizes available: 15mm and 20mm

Single jet, dry dial, direct reading on 8 numerical rolls.

Produced in the versions for cold and hot water in the diameters DN15 and DN20 mm (1/2"- 3/4").

360° rotating dial.

Inductive pre-equipment for the installation of data communication modules M-BUS wired, wireless M-BUS and LoRa.

03 SIGNAL REPEATER

The Wireless M-Bus-RFM RPT3 is a signal repeater device that extends the radio signal coverage transmitted by radio modules on water meters, heat meters, and heat cost allocators.

It follows the WMBUS standard and can repeat WMBUS telegrams within a daily activities window, complying with the EN13757 standard. It excludes signals already repeated by other devices (single-hop logic).

Additionally, it can be configured to create up to 3 levels of repeating chains, regardless of the standard.

04 GPRS WIRELESS TRANSMITTER

The RFM-C3 is a gateway/data concentrator that gathers data from Wireless M-Bus devices and transmits it via GPRS or Ethernet/LAN/Wi-Fi network. It collects consumption data and information from B METERS' radio modules, measuring devices, and heat cost allocators with Wireless M-Bus interfaces.
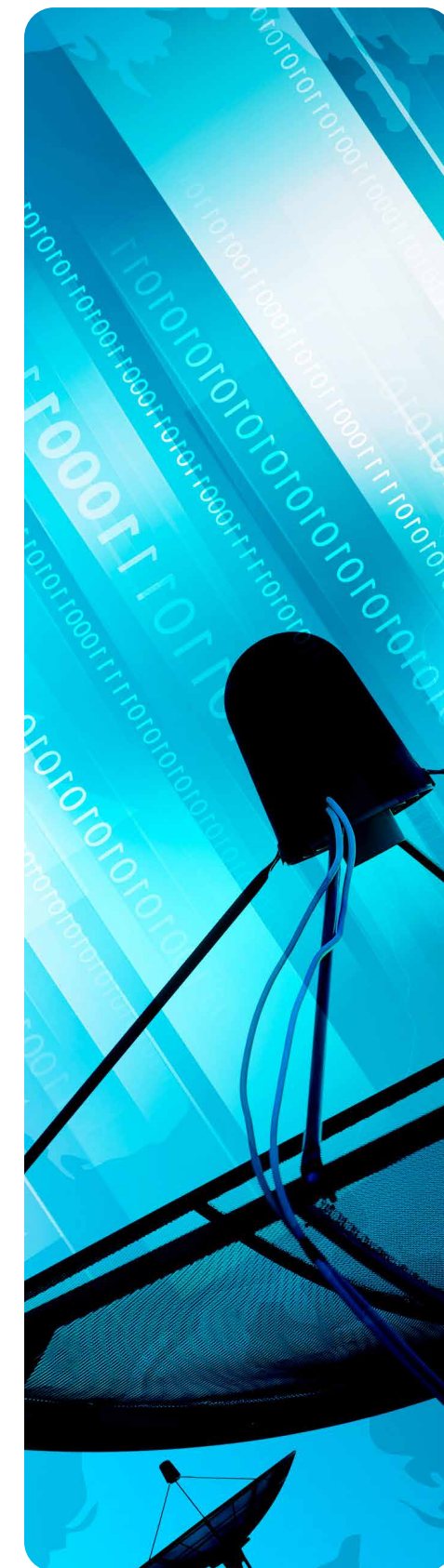
The concentrator sends the data via email using GPRS or an internet connection through Ethernet/LAN/Wi-Fi. The email contains acquired telegrams in .txt format and can be sent to up to five recipients with daily/weekly/monthly frequency. Configuration of the device is done by connecting a PC to the Ethernet port of the RFM-C3 concentrator using an RJ-45 LAN cable.

05 RECEIVING MODULE

The RFM-RX2 is a USB device used for configuring and collecting consumption data from radio modules on water meters, heat meters, heat cost allocators, and temperature sensors produced by B METERS.

It operates according to the WMBUS standard. The RFM-RX2 is intended for use with B METERS' configuration and reading software. It features a removable and replaceable 360° orientable antenna, facilitated by its SMA connector.
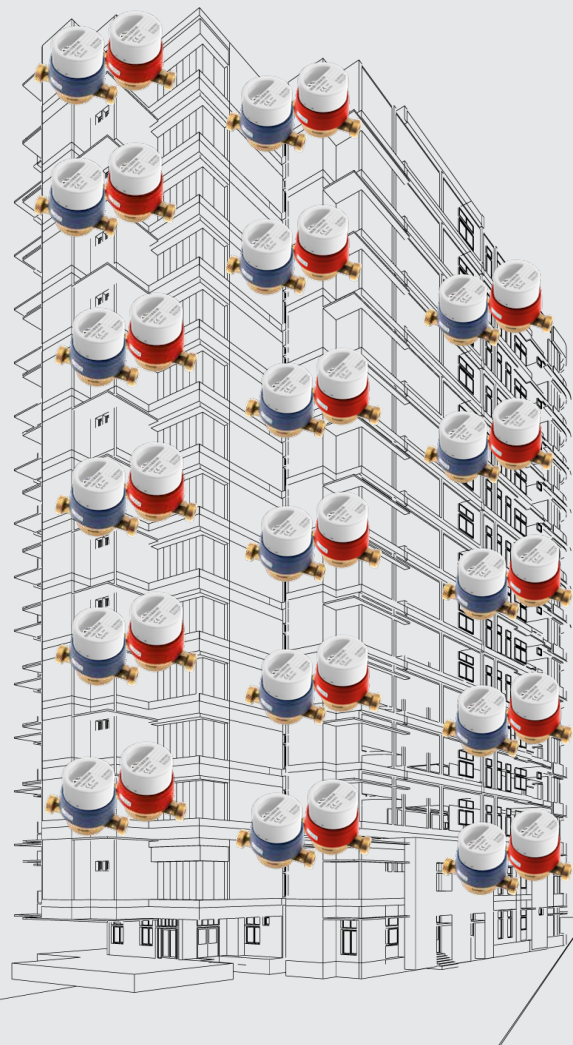
06 HYDROLINK SOFTWARE

Hydrolink software simplifies the configuration and management of radio-based consumption data collection. It offers encryption, alarms, and customizable data transmission intervals.

Users can associate serial numbers and end user data, access consumption history, and create survey lists. The software allows targeted module detection and supports data export in CSV or XML format. Hydrolink streamlines data handling and analysis for efficient management.
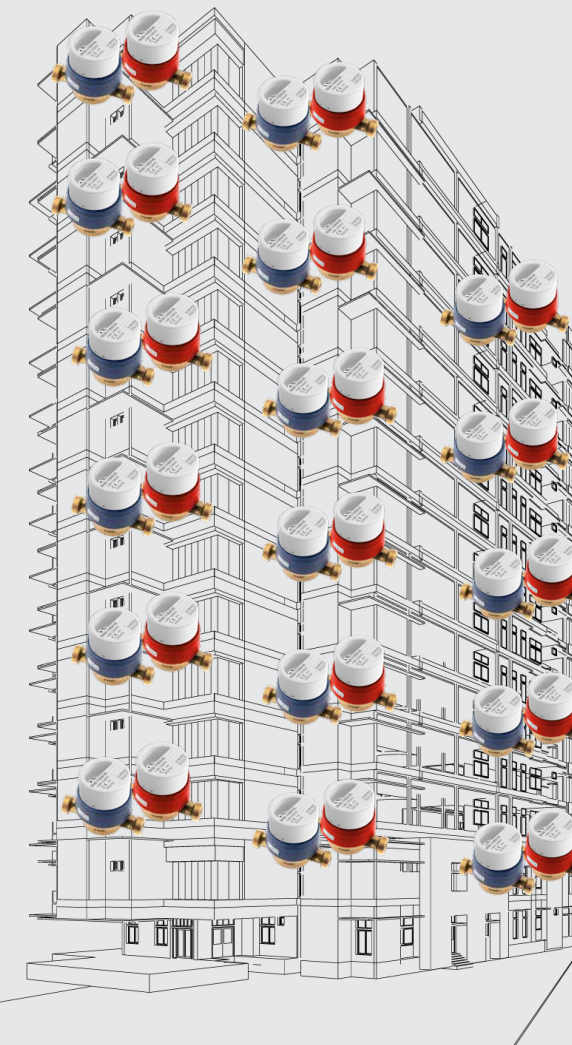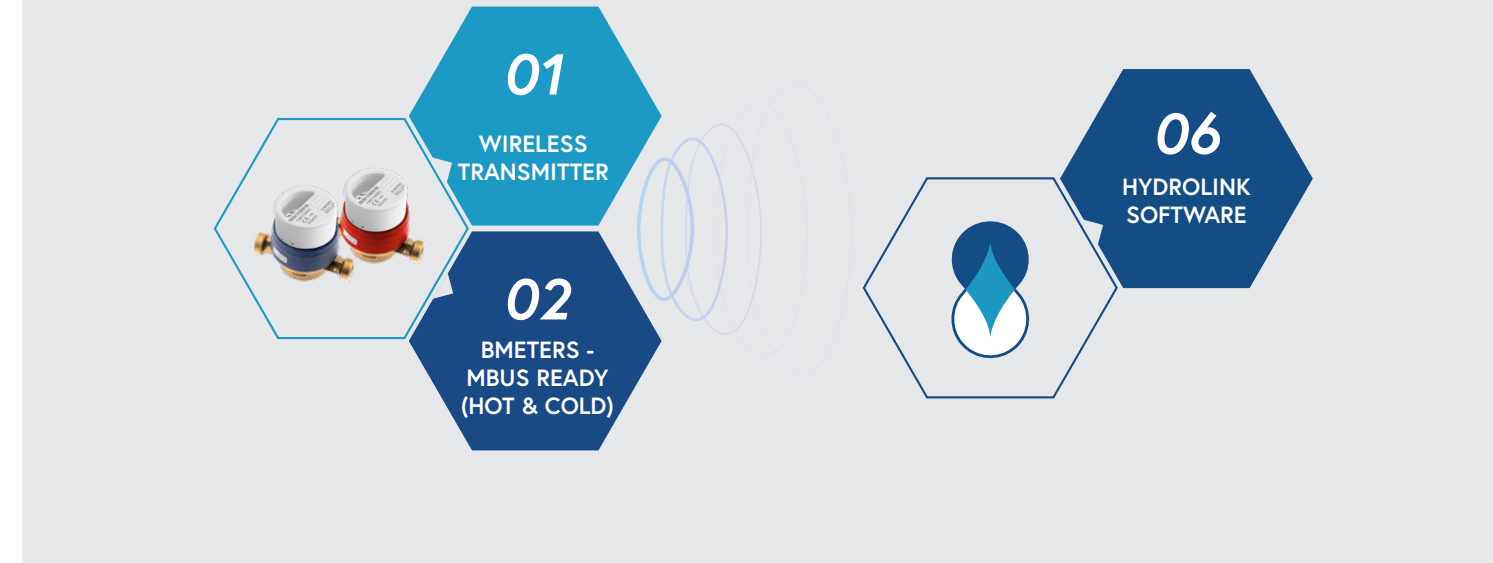
MBUS WIRELESS REMOTE BY WATER

With an MBus Wireless Remote by Water system, monitoring and managing your water consumption has never been easier. This innovative solution utilizes wireless technology to remotely collect data from your water meter without the need for physical access. Say goodbye to manual readings and hello to effortless monitoring!

Through wireless communication, your water meter automatically transmits consumption data to a central monitoring system. This means you no longer have to worry about scheduling meter readings or providing access to your property. The system provides real-time or near-real-time updates on your water usage, allowing you to keep a close eye on your consumption patterns.

Not only does the MBus Wireless Remote by Water system offer convenience, but it also enables proactive leak detection. By monitoring your water usage in real-time, you can quickly identify any unexpected increases or irregularities, helping you detect and address potential leaks promptly.

In addition, this system streamlines billing processes, ensuring accurate readings and eliminating estimation errors. With its wireless connectivity, you can enjoy hassle-free data collection and management, helping you optimize water usage and save on costs.

Embrace the power of wireless technology and take control of your water consumption with an MBus Wireless Remote by Water system. It's a smart and efficient solution designed to simplify your life while promoting water conservation.

MBUS WIRELESS WALKBY

An MBus Wireless Walkby system is a type of metering system that utilizes wireless communication technology to collect consumption data from meters. The "MBus" refers to the Meter-Bus protocol, which is a standard communication protocol used for connecting and reading meters.

In an MBus Wireless Walkby system, meter readers or data collectors equipped with portable devices (such as handheld devices) can walk by the meters, and the data is wirelessly transmitted from the meters to the collector's device. This wireless transmission eliminates the need for physical connections or manual reading of the meters, improving efficiency and reducing human error.

The system typically employs radio frequency communication, where the meters are equipped with radio modules that transmit the consumption data wirelessly. The portable device carried by the meter reader is capable of receiving these transmissions and collecting the data.

The MBus Wireless Walkby system enables faster and more convenient data collection, especially in situations where meters are dispersed over a wide area or in difficult-to-reach locations. It simplifies the meter reading process and enhances the efficiency of data management for utility companies or organizations responsible for metering and billing.

01 WIRED TRANSMITTER

The RFM-MB1 is an integrated module, for the transmission of consumption data via cable M-BUS network, applicable to the series of single jet water meters mod. GSD8-RFM.

Easy to install and configure, in addition to information on current consumption, it allows to detect different types of attempted fraud against the meter, prolonged operation at maximum flow rate (Q4) and the presence of a potential water leak downstream of the meter.

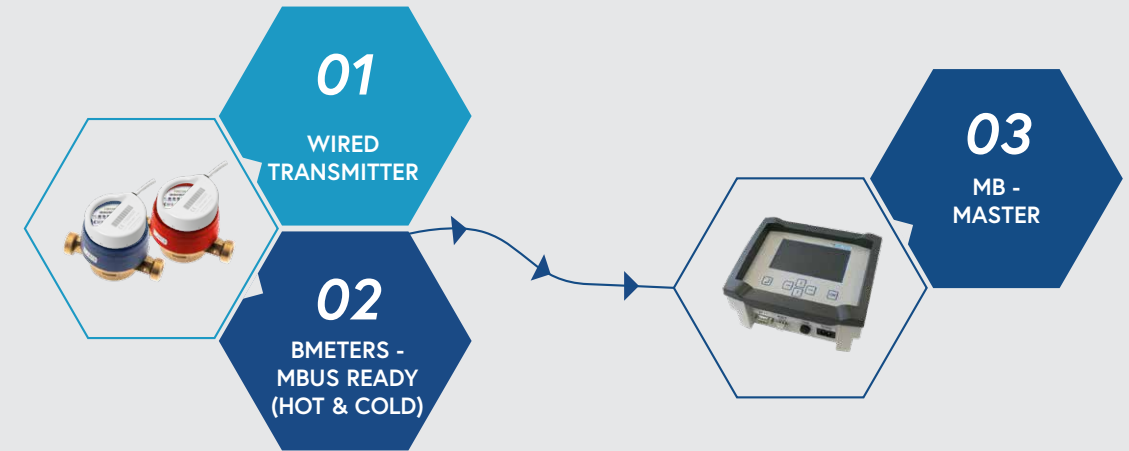## 02 BMETERS - MBUS READY (HOT & COLD)

Sizes available: 15mm and 20mm

Single jet, dry dial, direct reading on 8 numerical rolls.

Produced in the versions for cold and hot water in the diameters DN15 and DN20 mm (1/2"- 3/4").

360° rotating dial.

Inductive pre-equipment for the installation of data communication modules M-BUS wired, wireless M-BUS and LoRa.

03 MB-MASTER

Functionalities:

The MB-MASTER concentrator allows communication with all data transmission modules that adopt the MBUS EN13757-3 standard.

It has been designed to manage networks consisting of M-Bus modules produced by B METERS water and heat meters. Available in 2 versions to support up to 60 or 250 network devices, it can handle up to 1200 m long network branches.

Equipped with an TFT display, it enables users to easily view present and historical consumption data up to 1 previous year (12 months values).

Operation:

The MB-MASTES is very easy to install and operate; the transmission modules configuration and data collection can be easily performed directly from the concentrator without having to reach the points where the various devices are individually installed.

Supplied with a user-friendly software and interface, allows to perform the consumption data reading operations (with the option to save up to 12 months of historical values), and export the data to a billing software.

Communication ready:

Equipped with RS232USB interface is ready to be connected to any PC, or to Ethernet and GPRS network (expansion modules required).

WIRED TRANSMISSION

Wired Mbus water meters are water flow measurement devices that are equipped with a wired communication interface, allowing for remote data collection and monitoring. M-Bus provides an efficient and standardized means of collecting consumption data from utility meters, simplifying meter reading processes, and enabling effective energy management and monitoring.

It allows for the automated collection of consumption data from multiple meters, providing efficient meter reading and monitoring capabilities. Integrating a Building Management System (BMS) with a wired M-Bus meter system can provide comprehensive monitoring and control of a building's energy consumption. They are commonly employed in various applications, such as residential, commercial, and industrial buildings, as well as in municipal water supply systems.

BMETERS
PRODUCT CATALOG
COMMERCIAL SYSTEMS

WIRELESS TRANSMITTER

The IWM-TX3 is a WMBUS radio module for the transmission of consumption data, applicable to the series of multi jet water meters mod. GMDM-I, GMB-I, GMB-RP-I and single jet mod. CPR-M3-I.

In addition to information on current consumption and a history of up to 12 previous months, it allows to detect different types of attempted fraud against the meter, prolonged operation at maximum flow rate (Q4) and the presence of a potential water leak downstream of the meter.

BMETERS - MBUS OR WIRED (HOT & COLD)

Sizes available: 25mm, 32mm, 40mm, 50mm

Multi-jet, dry dial, magnetic transmission with 360° rotating lid.

Versions for cold water and hot water.

Inductive pre-equipment for the installation of data communication modules M-BUS wired and wireless M-BUS, non-magnetic pulse output and LoRa.

WIRED TRANSMITTER

The RFM-MB1 is an integrated module, for the transmission of consumption data via cable M-BUS network, applicable to the series of single jet water meters mod. GSD8-RFM.

Easy to install and configure, in addition to information on current consumption, it allows to detect different types of attempted fraud against the meter, prolonged operation at maximum flow rate (Q4) and the presence of a potential water leak downstream of the meter.

BULK METERS

Horizontal Woltmann with removable insert. High measuring range (R250).

Sealed counter mechanism with magnetic transmission.

Inductive pre-equipment for the installation of data communication modules M-BUS wired and wireless M-BUS, non-magnetic pulse output and LoRa.

PLAN YOUR NEXT PROJECT WITH

SmartCart

SCHEDULING TOOL

Simplify your next project with SmartCart, Waterware's new scheduling tool. SmartCart is your own personal logistics manager, providing customers with the means to plan and schedule their projects over multiple deliveries with time frames that suit them.

SmartCart is designed to cover the complete customer journey to help ensure that products ordered are in stock to coincide with the schedule that has been set.

This will provide Waterware the ability to forecast products ahead of each stage of the project, giving the customer the security they need to run their projects with first class service.

Products are allocated to the project to effectively guarantee the supply and price over the duration of the project. Products are not charged until they are delivered, giving you the best of both worlds – products that are available when you need them, at the current price without impacting your cash flow.

As an added bonus, customers will also have up to 2 years from the point of ordering, to schedule deliveries!

Plan smart and contact Waterware to find out more about SmartCart.

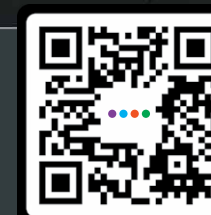| SCHEDULE YOUR PROJECTS | SPLIT DELIVERIES | TIME MANAGEMENT | PREMIUM SERVICE |

Scan the QR code below to watch a short video of how SmartCart can help you plan your next project!

SCAN ME