Measured by WATERWARE

Waterware has been the New Zealand market leader in Water sub-Metering, partnering with B-METERS for more than 10 years. We have successfully installed more than 80,000 individual meter solution through New Zealand partnering with major European manufactures and continue to embark in delivering state of the art technology in water management solutions.

B METERS metering solutions

Bmeteres is an Italian company that for over 30 years has been producing innovative and user-friendly products, integrated solutions and remote reading systems for water and heat meters. The current production exceeds 2,000,000 million meters per year placing B METERS in a leading position among the water meter manufacturers at national and European level.

FUNCTIONS FOR EFFECTIVE WATER MANAGEMENT

READ	Purpose of reading (management, billing, type potable or waste) and location of installation. What is the read protocol required to send & collect readings and accuracy required
RECEIVE	How do you want to receive the water meter consumption reading (wired, wireless local or remote)
SEND	How you want to send data, email, internet software or Building Management System (BMS)
COLLECT	Who receives the readings and what are they doing with it?

ASSOCIATED PARTIES

PLUMBING SUPPLY	
Product	**Meter Installation**
Distributor/Supplier of compliant metering device to standard and codes.	Installer / Plumber of hardware to environment and point of measurement.

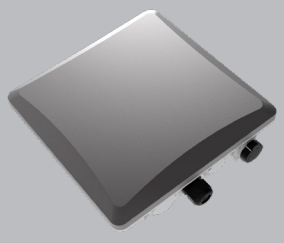
INTEGRATION PARTNERS	
Data Acquisition	**Data Collection**
Commissioning technical configuring the system to recording, and consumption data locally or remote.	Complete solution terminated to collection software platform – monitoring/billing software or **IoT** platform.

M-Bus WIRELESS WALK-BY LOCAL (SHORT RANGE)

PLUMBING SUPPLY			
READ	SEND	*RECEIVE*	*COLLECT*
Meter	Module	Acquisition	Data Network Platform
 **WMHD20**	Inbuilt Module	 **WMBUSUSRBT2**	Android Bluetooth device Download and installed **BMETERS** free App 
 **WMHD** 25-50			
 **WMBUSW** 65-200(H)	 (TX4)	 **WMBUSUSB867**	Connected to **BMETERS** software

Range: Up to 300m in ideal conditions. Connection: Bluetooth or USB, **IP68:** maximum 24 hours of continuous submersion at 1 m depth. **Transmission protocol:** Wireless M-BUS. Data transmission frequency: 867, 868 & 921 MHz

LoRaWAN® WIRELESS REMOTE (LONG RANGE)

PLUMBING SUPPLY		*INTEGRATION PARTNERS*	
READ	SEND	*RECEIVE*	*COLLECT*
Meter	Module	Acquisition	Data Network Platform
 **WMHD20** (TX4)	Inbuilt Module	 LoRaWAN Gateway/Aerial	 Requires ongoing ***Service Fee*** per unit
 **WMHD** 25-50			
 **WMBUSW** 65-200(H)	 **WMLR4** (LR4)		
 Ready attached Sensor **WMP20S** (C or H)	 LORA-PULSE-1		

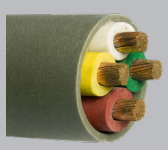
Range: Dependant on Gateway ability from e.g. 200m to 10km. IP68: maximum 24 hours of continuous submersion at 1 m depth. **Connection:** Wireless LoRa integrated transmission modules. **Transmission protocol:** Wireless LoRaWAN. **Data transmission frequency:** 868 & 923 AS MHz

M-Bus WIRED TRANSMISSION

PLUMBING SUPPLY		INTEGRATION PARTNERS	
READ	SEND	*RECEIVE*	*COLLECT*
Meter	Module	Acquisition	Data Network Platform
 **WMHD20**	 **WMHD PULSE** IR-MB Pulse	direct WIRED to BMS (Building Management System)	via BMS
 **WMHD** 25-50			
 **WMBUS20S** (C or H)	 **WMIBUS WIRED5** MB1		
 **WMBUS** 25-50 (C or H)	 **WMIBUS WIRED** MB3		

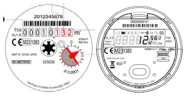
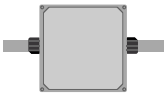
IP68: maximum 24 hours of continuous submersion at 1 m depth.
Energy supply: Non-replaceable lithium battery, rechargeable (automatic recharge from the BUS network).

PULSE WIRED TRANSMISSION

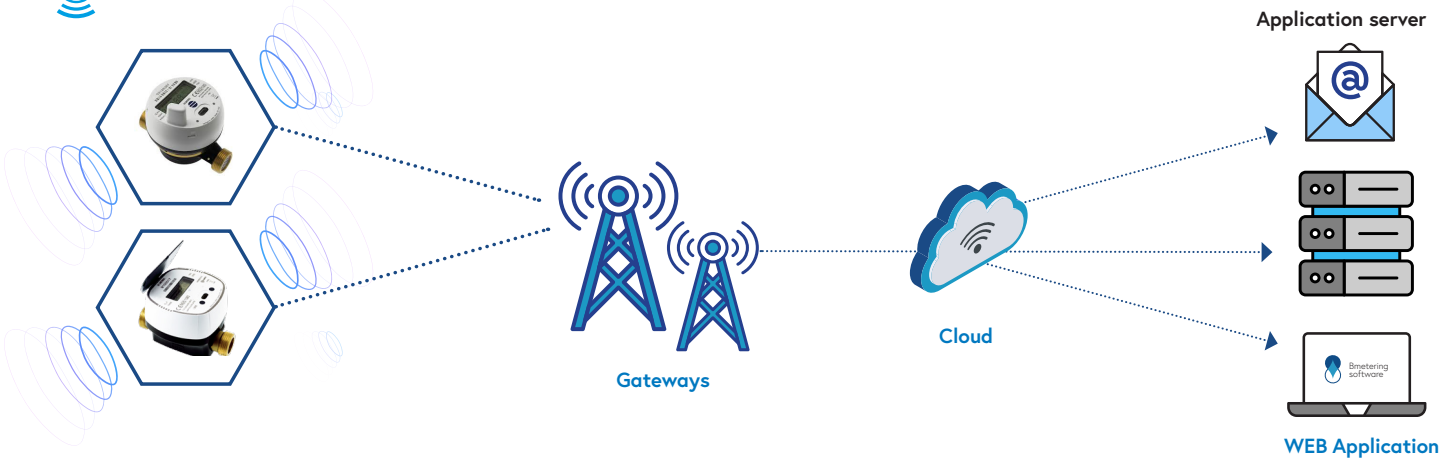
PLUMBING SUPPLY		INTEGRATION PARTNERS	
READ	SEND	*RECEIVE*	*COLLECT*
Meter	Module	***Acquisition***	***Data Network Platform***
 **WMP20S** (C or H)	Inbuilt Module	direct WIRED to BMS (Building Management System)  *Wires: + WHITE: Pulses, - BROWN: Ground, + YELLOW: Fraud wire, + GREEN: Third wire, Cable length: 1.5m*	via BMS
 **WMBUS** 25-50 (C or H)	 **WMIBUS PULSE3** PL3		
 **WMBUSW** 65-200(H)	 **WMIBUS PULSE4** PL4		

IP68: maximum 24 hours of continuous submersion at 1 m depth.
Energy supply: Non-replaceable lithium battery, 10 years lifetime.

SYSTEM DESIGN

MANUAL READ		**Physically reads** the water consumption measured by the meter, either from the mechanical dial or the digital display.
WIRELESS WALK-BY (SHORT RANGE)	M-Bus	**Wireless onsite WALK-BY data collection –** Requires a physical device (laptop/ tablet) connected to a Wireless M-BUS transceiver to collect meter data and send it to the BMeters software for reporting, including alarm functionality. The M-BUS Wireless WALK-BY system provides faster, more convenient data collection and is widely used by meter readers, body corporates, and facility management companies as an economical solution.
WIRELESS REMOTE (LONG RANGE)	LoRaWAN®	**Wireless Remote data collection** – this solution uses **wireless** technology via the **LoRaWAN** frequency network to collect data from your water meter without the need for physical access, with built-in alarm functionality. Connectivity requires a local gateway linked to the internet, which sends the data to an application server for analysis or billing. This solution will incur ongoing network charges or integration into existing platform for connectivity.
WIRED TRANSMISSION		**Direct-wired meter reading** – Physically measures the volume of water passing through the meter and transmits the readings via a direct wired connection to a central collection point, typically a Building Management System (BMS). This method provides a continuous, reliable data feed with minimal signal interference, making it ideal for environments where wireless connectivity may be limited or where high data accuracy is critical. It can also support integration with alarm functions and automated reporting systems.

LoRaWAN® WIRELESS REMOTE READ OVERVIEW



Specification Summary

Meter Body: Brass construction (CW511 L or equivalent) compliant with G12 Building Code potable water standards and pending Low Lead Standard 2026; supplied with unions. **Manufacturing Standard:** Minimum certification – KIWA or WRAS, ISO 9001:2008, 2014/32/EU module D (MID). **Display & Accuracy:** Digital inductive with rotating display, R250 flow rate, mechanical magnetic turbine, R100 flow rate. EU/MID/OIML literature states a mandatory min. R-Value of 40 for billing meters across the board. **Data Transmission:** Integrated wireless connectivity, with option for wired (local) transmission. **Data Acquisition:** Supports Wireless M-Bus, M-Bus, LoRa WAN, BMS-IP3, Modbus, BACnet.

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