

# WARIDA wM-Bus



WARIDA wM-Bus radio module is an advanced communication device that allows remote reading of utilities using wM-Bus technology. The WARIDA wM-Bus offers reliability, performance and integration with any system such as GlobTree.

The measurements sent by the radio module are collected by transmission devices such as the RUTO telemetry handheld or Concentrator uL 5.0, and then shared on any GlobTree-type platform. This is a universal and comprehensive solution, that allows you to monitor and manage data regarding water consumption.



## Technical specifications - radio module

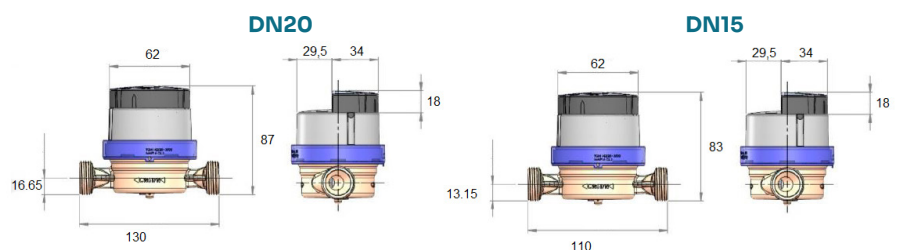
### WARIDA wM-Bus

Installation method	Directly on the water meter
Water meter type	FM1*Y type (single-jet, dry-running)
Method of counting pulses from the water meter	Inductive
Power supply	Battery 1,6Ah
Battery type and voltage	2/3AA 3.6V
Battery life	10 years
Working temperature	-20°C ÷ 55°C
Air-tightness class	IP51 IP68
Antenna	Built-in
Communication with water meter	Inductive
Security / data encryption	AES-128-CBC

### Radio parameters

Transmission protocol	Wireless M-Bus (T1 and C1 mode)	M-Bus
Transmission speed	100 kb/s	0,3-38,4 kb/s
Transmission type	One-way	Two-way
Frequency	868,95 MHz	-

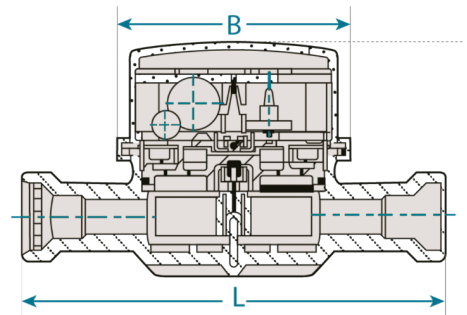
Direct installation, no need for use of cables, automatic activation of radio data transmission. Comfortable, compact size of the device and solid construction provide stable operation in different conditions.



## Hydraulic parameters

- Water meters in compliance with Directive 2014/32/EU
- Metrology class by MID: R: 100/160H, 50V
- Cold water (50°C), hot water (90°C)
- Eight-position counter for visual reading
- Hygienic certificate of PZH
- Brass body
- Working pressure 1.6MPa
- Hermetically closed counter of IP 68 class, reresistant against contamination and evaporation
- Serial number is permanently imprinted on totalising mechanism, is resistant to water hammer.
- Resistant to external magnetic field
- Double-sided counter bearing on technical Stones

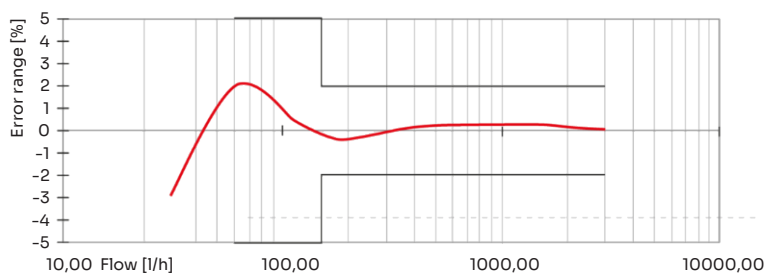
Dimensions:



### Technical specifications:

Nominal diameter	DN	mm	15	15	20
Nominal flow rate	$Q_3$	$m^3/h$	1,6	2,5	4,0
Measuring range	R	$Q_3/Q_1$	H100, V50		
Minimum flow	$Q_1$	l/h	16,0	25,0	25,0
Intermediate flow	$Q_2$	l/h	26,0	40,0	40,0
Maximum flow	$Q_4$	$m^3/h$	2,0	2,5	5,0
Start-up flow	-	l/h	5-7	6-8	8-11
Indication range		$m^3$	99999,999		
Elementary plot		l	0,05		
Working pressure max	$P_{max}$	bar	16		
Pressure loss max	$\Delta p$	bar	0,63		
Temperature class	T	-	30, 90		
Flow sensitivity class	-	-	U0, D0		
<b>Installation position</b>	-	-	H, V		
Spigot thread	G	cal	3/4"	3/4"	1"
Construction length	L	mm	110	80, 100	130
Height	H	mm	70	70	73
Counter diameter	B	mm	70	70	70,0
Weight	L	kg	0,45	0,45	0,6
Pulse value	K	l/imp	1,0		

### Error curve diagram:



### Pressure loss graph:

