WARIDA WGA NB-IoT/Cat.M1



The WARIDA WGA NB-IoT/Cat.M1 radio module is an advanced communication device that enables remote reading of media using Cat.M1 or NB-IoT technology. The WARIDA WGA NB-IoT/Cat.M1 device offers reliability, efficiencyand integration with any system, e.g. GlobTree.

The encoded information saved in the device's memory about the readings is made available on any GlobTree-type platform. It is a universal and comprehensive solution that allows for monitoring and managing data concerning water consumption.

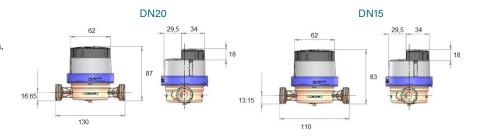


Technical specifications - radio module

NB-IoT/Cat.M1

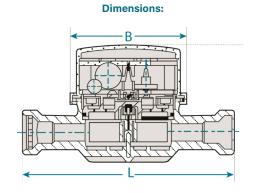
Installation method	Directly on the water meter				
Water meter type	FM1*Y type (single-jet, dry-running)				
Method of counting pulses from the water meter	Inductive				
Power supply	Battery 1,6Ah				
Battery type and voltage	Battery				
Battery life	10 years				
Working temperature	-20°C - 55°C				
Air-tightness class	IP68				
Antenna	10 years				
Communication with water meter	Inductive				
Communication with the overlay	Wireless, using the MQTT protocol				
Transmission parameters	Cat.M1	NB-IoT			
Transmission protocol	MQTT				
Transmission speed	max. 1Mbit/s	max. 159 kbit/s			
Transmission type	Two-way (full-duplex)	Two-way (half-duplex)			
Frequency	800 MHz (LTE B20) 900 MHz (LTE B8) 1800 MHz (LTE B3) 2100 MHz (LTE B1)				

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

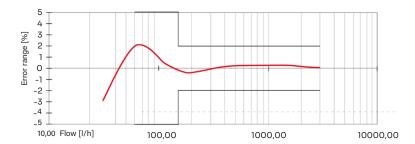
- Water meters in compliance with Directive 2014/32/EU
- Metrology class by MID: R: 100/160H, 50V
- Cold water (50°C), hot water (90°C)
- Eight-position counter for visual reading
- Hygienic certificate of PZH
- Brass body
- Working pressure 1.6MPa
- Hermetically closed counter of IP 68 class, reresistant 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



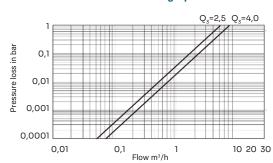
Technical specifications:

Nominal diameter	DN	mm	15	15	20
Nominal flow rate	Q_3	m³/h	1,6	2,5	4,0
Measuring range	R	Q ₃ ,Q ₁	H100, V50		
Minimum flow	Q ₁	1/h	16,0	25,0	25,0
Intermediate flow	Q_2	1/h	26,0	40,0	40,0
Maximum flow	Q ₄	m³/h	2,0	2,5	5,0
Start-up flow	-	1/h	5-7	6-8	8-11
Indication range		m³	9999,999		
Elementary plot		I	0,05		
Working pressure max	P _{max}	bar	16		
Pressure loss max	Δρ	bar	0,63		
Temperature class	Т	-	30,90		
Flow sensitivity class	-	-	U0, D0		
Installation position	-	-	Н, V		
Spigot thread	G	cal	3/4"	3/4"	1"
Construction length	L	mm	110	80,100	130
Height	Н	mm	70	70	73
Counter diameter	В	mm	70	70	70,0
Weight	L	kg	0,45	0,45	0,6
Pulse value	К	1/imp	1,0		

Error curve diagram:



Pressure loss graph:







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