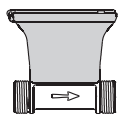




# INSTRUCTIONS FOR THE INSTALLATION AND USE OF ULTRIMIS W WATER METERS

## WATERMETER TYPES

Water meters with brass body  
Built-in radio  
**Ultrimis W UL**  
DN15-50



CE, MID, IP68, WM-Bus / OMS

Water meters with the composite body  
Built-in radio  
**Ultrimis W UL-01**  
DN15-20



CE, MID, IP68, WM-Bus / OMS

## ACCESSORIES

Smartphone type device  
with an application and licence



Android, NFC

TestBox

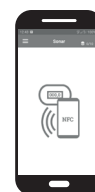


Available in 433 MHz or 868 MHz in accordance  
with the radio version of the water meter

Application for smartphone type devices

# SONAR

Android, NFC



## TRANSPORTATION AND STOCK CONDITIONS

Protect against shock and vibration

Storage at temperatures above 0°C to 25°C

## ESSENTIAL INFORMATION



Water temperature up to **50°C**



Ambient temperature range **5-55°C**



Working pressure **16 bar\***



Battery lifetime up to **16 years\*\***

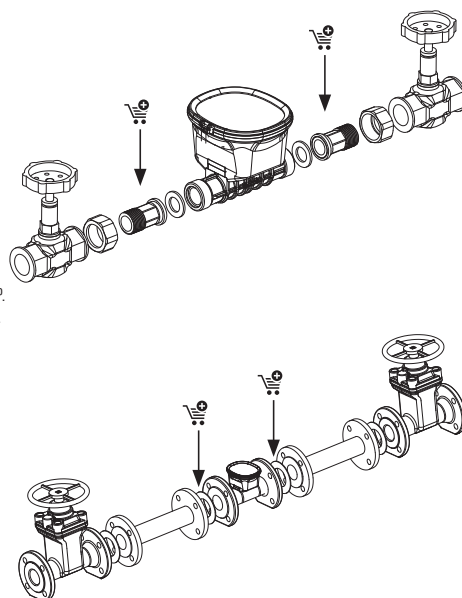
Two integrated 3.6 V DC lithium **AA** batteries



Radio parameters: 868 MHz do **25 mW** E.R.P.  
434 MHz do **10 mW** E.R.P.

\*) 10 bar please contact your dealer

\*\*) depending on the configuration and environmental  
conditions



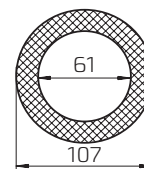
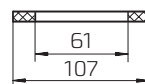
Ultrimis W



		17	29	25 Nm
UL2,5	DN15	17	29	25 Nm
UL2,5-01	DN15	17	29	15 Nm
UL4	DN20	20	36	30 Nm
UL4-01	DN20	20	36	20 Nm
UL6,3	DN25	36	47	35 Nm
UL10	DN32	44	54	40 Nm
UL16	DN40	50	67	45 Nm
UL25	DN50	24	24	-

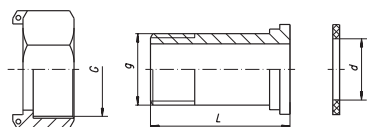
\*\*\* Pipelines may feature other sizes

Gasket **DN50** for flange connections  
according to PN-EN 1514-1: 2001



## COMPONENTS REQUIRED TO INSTALL WATER METERS

Couplings available from Apator Powogaz



	G	g	d	L	Indeks
Set of couplings with gaskets DN 15 mm	3/4"	1/2"	17 mm	37,5	0616-100-018
Set of couplings with gaskets DN 20 mm	1"	3/4"	23 mm	45,5	0616-100-019
Set of couplings with gaskets DN 25 mm	1 1/4"	1"	29 mm	46,5	0616-100-021
Set of couplings with gaskets DN 32 mm	1 1/2"	1 1/4"	36 mm	56,0	0616-100-026
Set of couplings with gaskets DN 40 mm	2"	1 1/2"	41 mm	67	0616-100-020



## CLASSIFICATION OF ENVIRONMENTAL CONDITIONS



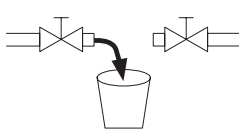
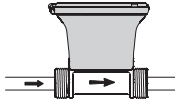
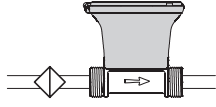
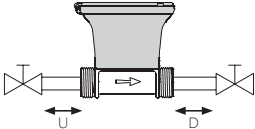
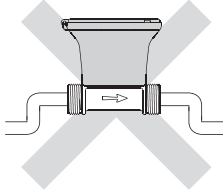
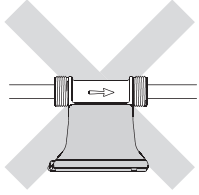
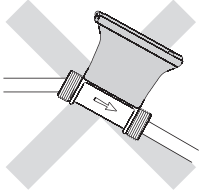
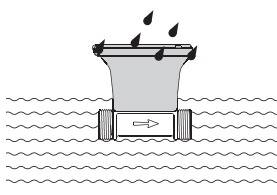
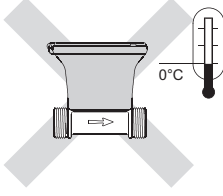
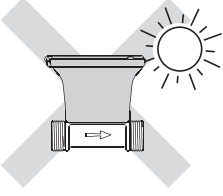
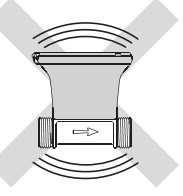
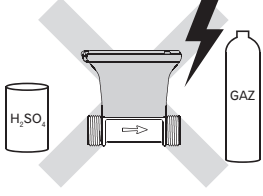
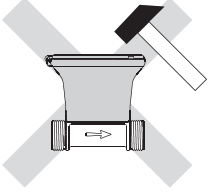
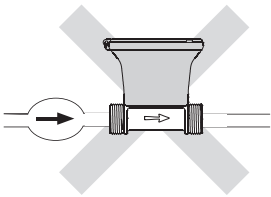
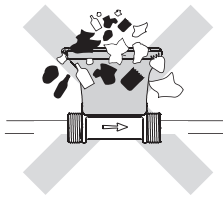
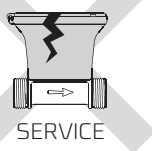
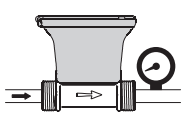

- Classification of the environment, climatic and mechanic conditions - **B** class according to EN - ISO 4064:2014
- Classification of the environment and mechanical conditions **M1** class - according to Directive 2014/32/EU of 26 February 2014
- Electromagnetic environments - **E1, E2** class according to EN - ISO 4064:2014 and to Directive 2014/32/EU of 26 February 2014



## INSTALLATION POSSIBILITIES AND REQUIREMENTS

Ultrimis W UL, UL-01	✓	✓	✓		U0 D0	U5 D3

## ✂ INSTALLATION AND OPERATION GUIDELINES

 <p>Installation shall be performed by persons with authorisations related to the use of water supply and sewage networks</p>	 <p>Close all valves prior to installation/dismantling</p>	 <p>When installing/dismantling the valves, receptacle, clean the screw connection and rinse the installation in the mounting spot.</p>	 <p>Install the water meter in line with the flow of water</p>	 <p>It is recommended to install a sediment filter before the water meter</p>
 <p>Straight sections before and after the water meter should comply with the specifications listed in the table above ✂</p>	 <p>Protect from air locks, do not install at the highest point of the installation</p>	 <p>Do not install the water meter face down</p>	 <p>Protect from strain resulting from installing the water meter on non-coaxial installations</p>	 <p>Suitable to work in humid conditions or submerged as per IP68</p>
 <p>Protect from freezing</p>	 <p>Protect from high temperatures and UV radiation</p>	 <p>Do not expose to vibrations</p>	 <p>Do not use near acids, gas and electrical installations</p>	 <p>Protect from impact</p>
 <p>Protect from the hydrodynamic water hammer effect</p>	 <p>Protect from contaminants at the installation site</p>	 <p>Send damaged water meter to the service</p>	 <p>Recommended minimum pressure behind the water meter <math>P_{min} \geq 0,3 \text{ bar}</math></p>	 <p>Do not place the used device together with municipal waste. Take it to a waste segregation point – comply with the rules of recycling.</p> <p><b>IMPORTANT:</b> Detailed information on the operation of the device can be found at <a href="http://www.apator.com">www.apator.com</a></p>

## 🔌 AUTOMATIC METER READING

