



**IOTAFLW**  
SYSTEMS PVT. LTD

# ULTRIMIS WATER METER INSTALLATION & OPERATING MANUAL

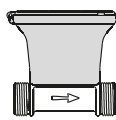
*“ If You Want To Manage It, Measure It ”*

**[www.iotaflow.com](http://www.iotaflow.com)**



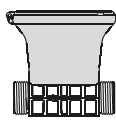
## WATER METER TYPE

Ultrasonic water meters  
with copper body and  
integrated RF connectivity  
**Ultrimis UL**  
DN15-50



CE, MID, IP68, WM-Bus, LoRaWAN

Ultrasonic water meters  
with composite body and  
integrated RF connectivity  
**Ultrimis UL-01**  
DN15-20



CE, MID, IP68, WM-Bus, LoRaWAN

## ACCESSORIES

Smartphone



Android, NFC

TestBox



Available for 433 MHz or 868 MHz service, depending on the water meter's RF module version

Smartphone app

# SPIDAP

Android, NFC



## SHIPPING AND STORAGE

Protect against shocks and vibration.

Store between 0°C and 25°C.

## BASIC INFORMATION

Max water temperature **70°C**

Ambient temperature **5-55°C**

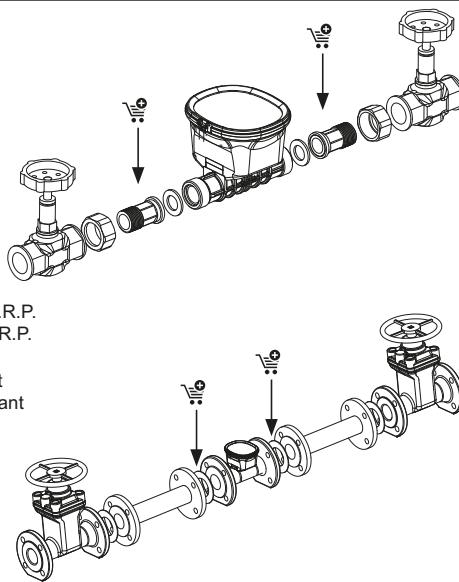
Operating pressure **16 bar\***

Battery life **16 years max.\*\***  
Two integrated 3.6 V DC lithium batteries, size **AA**

RF connectivity parameters: 868 MHz up to **25 mW E.R.P.**  
434 MHz up to **10 mW E.R.P.**

Communication standard: WM-Bus, OMS-compliant  
LoRaWAN V1.0.4-compliant

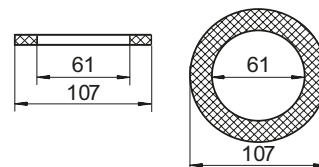
10 bar is available on special order.  
Depending on the configuration and ambient conditions.



Ultrimis				
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	-

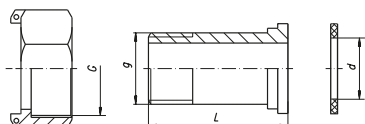
The actual installation may feature other connection fitting dimensions.

Flanged **DN50** port gasket acc. to PN-EN 1514-1:2001



## ESSENTIAL INSTALLATION COMPONENTS

**Aptor Powogaz half unions**



	G	g	d	L	Index
DN 15 mm kit of half unions w/gaskets	3/4"	1/2"	17 mm	37.5	0616-100-018
DN 20 mm kit of half unions w/gaskets	1"	3/4"	23 mm	45.5	0616-100-019
DN 25 mm kit of half unions w/gaskets	1 1/4"	1"	29 mm	46.5	0616-100-021
DN 32 mm kit of half unions w/gaskets	1 1/2"	1 1/4"	36 mm	56.0	0616-100-026
DN 40 mm kit of half unions w/gaskets	2"	1 1/2"	41 mm	67	0616-100-020



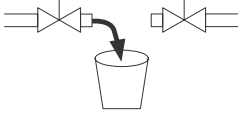
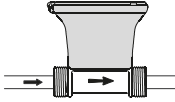
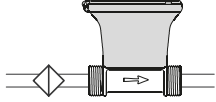
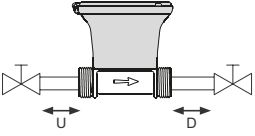
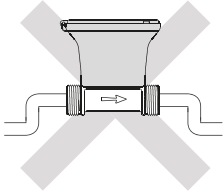
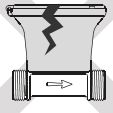
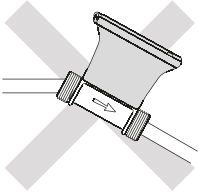
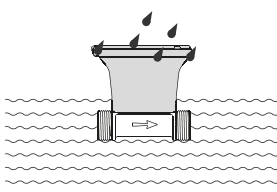
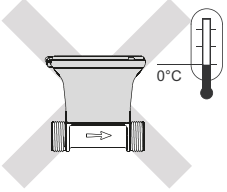
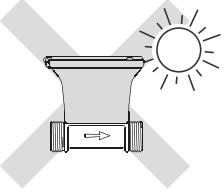
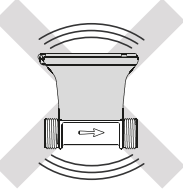
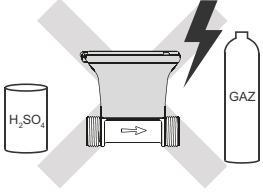
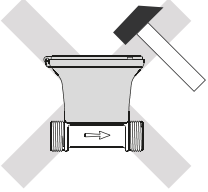
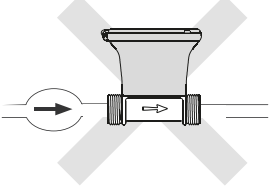
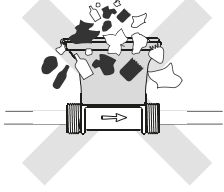
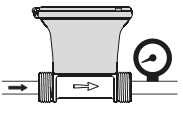
## CLASSIFICATION OF ENVIRONMENTAL CONDITIONS

- Environmental classification – Climate and mechanical conditions: Class **B** (EN ISO 4064: 2014)
- Environmental classification – mechanical conditions: Class **M2** (Directive 2014/32/UE of 26 February 2014)
- Electromagnetic conditions: Class **E1 E2** (EN ISO 4064: 2014 and Directive 2014/32/UE of 26 February 2014)

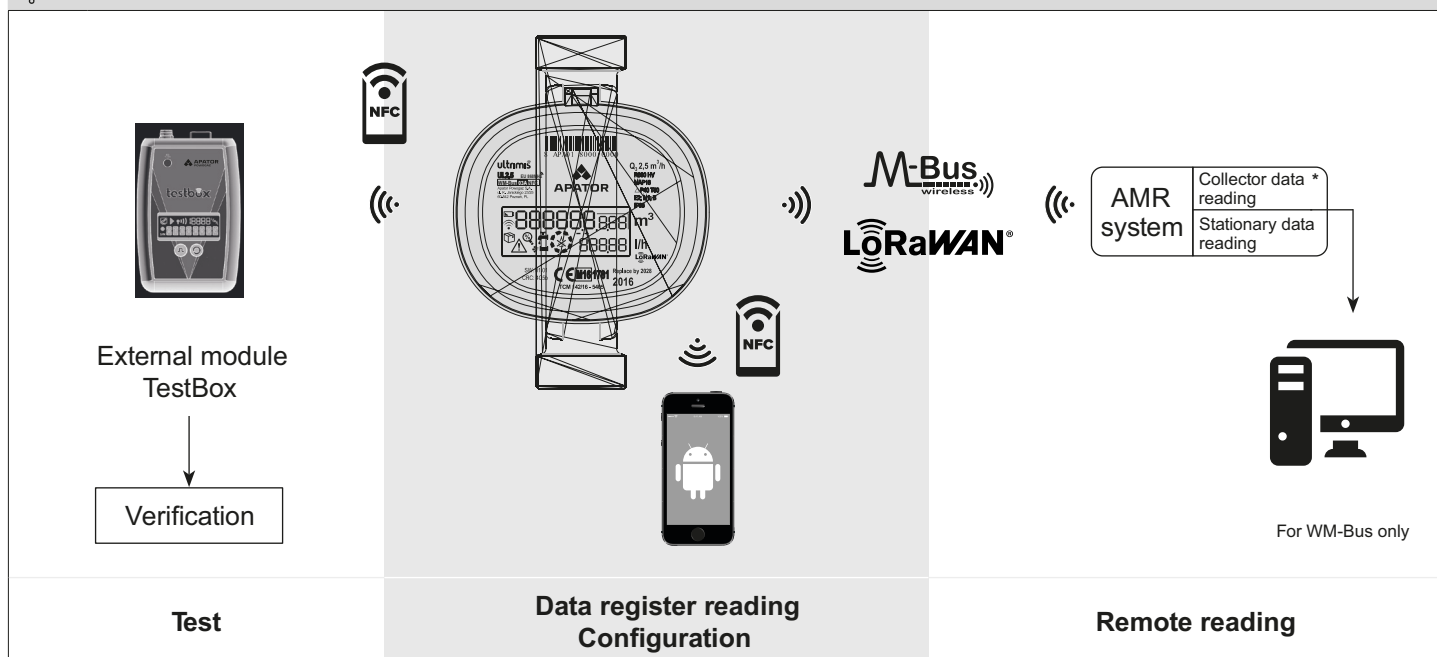
## COMPATIBILITY AND INSTALLATION REQUIREMENTS

Ultrimis UL, UL-01					Operating orientation	U0 D0	U5 D3

## ✂ Installation and operating recommendations

 <p>This product should be installed by a professional licensed for servicing and operation of water and sewage systems.</p>	 <p>Close the upstream and downstream valves before installing/removing the product.</p>	 <p>When installing or removing the water meter, place a container to collect the liquid, clean the threaded ends, and flush the system section the water meter will be installed in.</p>	 <p>Mind the indicated direction of water flow.</p>	 <p>Install a separating filter upstream of the water meter.</p>
 <p>Keep the straight line sections upstream and downstream of the water meter as shown in the table below ✂</p>	 <p>Protect from air pockets; do not install in the highest points of the system.</p>	 <p>SERVIS</p> <p>Have the water meter serviced if defective.</p>	 <p>Prevent stresses from misalignment with the pipeline.</p>	 <p>This device is suitable operation in wet or flooding conditions per IP68</p>
 <p>Protect from freezing.</p>	 <p>Protect from high temperature and UV light.</p>	 <p>Protect from vibration.</p>	 <p>Do not use near sources of acids, gases and/or electrical systems.</p>	 <p>Protect from shocks.</p>
 <p>Protect from hydraulic shocks.</p>	 <p>Keep the installation site clean.</p>	 <p>Minimum water meter downstream pressure <math>P_{min} \geq 0.3 \text{ bar}</math></p>	<p>Do not dispose of the device with household waste. Bring the device to a selective waste collection point. Please recycle.</p> <p><b>NOTE:</b> See <a href="http://www.apator.com">www.apator.com</a> for detailed information about the operating principle and conditions.</p>	

## 🔌 CONNECTION EXAMPLE DIAGRAM





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