

RFSplit STSPrepayment Water Meter

PPLA23UN encompasses a stylish dial panel which makes for a clear reading and easy maintenance. By adopting Radio Frequency Communication Technology, this STmeter communicates with it's CIU conveniently to identify remote mete recharge, parameter inquiry and other functions which provide comprehensive, reliable and advanced prepayment solutions to both landlords and tenants. This meter is compatible with both velocity and volumetric, complies with OIMLR49, ISO4064 and conforms to STSstandard protocol.



Features

- ⦿ High accuracy Real Time Clock (RTC)
- ⦿ Anti-magnetic interference
- ⦿ Maximum 10 steps of water tariff
- ⦿ Meter cover open detection
- ⦿ Meter reset
- ⦿ Insufficient water warning

Functionalities

Meter Recharge

- ⦿ Purchase a 20-digit numeric token from approved vendors
- ⦿ Hold any number key on the CIU for at least 2 seconds to get it off sleep mode
- ⦿ Input the token on the keypad. The LCD will display the numbers that are inputted and the top right corner will display the current number of digits

Parameter Inquiry

Customers can input a 2-digit inquiry token to check detailed information on the meter.

Alarm Value

- ⦿ Insufficient water warning function is optional
- ⦿ Input the corresponding token to set the alarm value
- ⦿ When remaining water in meter reaches this value, the buzzer will beep and LCD will show UN01 to remind customers to recharge meter in time.
- ⦿ Valve can be opened again by inputting inquiry token "12 + Enter Key" or 20-digit Clear Event Token provided by Authority Operator.

Meter Recharge

All the customer information in the meter which includes Purchased Volume, Consumed Volume, Meter Event Records, etc. will be cleared if the 20-digit meter rest token is input. By which operation, it will reset the meter to factory settings.

Clear Event State

In order to prevent external tamper to meter, the meters valve will be closed automatically when the following events occur:

- ⦿ Meter cover is opened illegally
- ⦿ Magnetic interference
- ⦿ Insufficient battery voltage
- ⦿ Meter restart

Customers can open valve again if remaining water in meter > 0 by inputting inquiry token "12 + Enter Key" or 20-digit Clear Event Token provided by Authority Operator.

Technical Specifications

Water Meter

Item	DN15	DN20	DN25
Diameter (mm)	15	20	25
Q_3 (m_3/h)	2.5	4.0	4.0
$R(Q_3/Q_1)$	80		
Accuracy Class	2		
Error: $Q_2 \leq Q \leq Q_4$	2%		
Error: $Q_1 \leq Q < Q_2$	5%		
Working temperature	0.1°C- 50°C		
Maximum working pressure	1.6MPa		
Pressure loss	$\leq 0.063MPa$		
Rated working voltage	3.6V		
Static working current	$\leq 30\mu A$		
Battery lifetime	≥ 5 years (typical)		
Pulse equivalent	$0.1m^3$		
IP level	IP68		
Communication distance	$>150m$ (meter & CIU)		

Working Temperature

 $> 0 - 90^\circ C$

 $> 0 - 50^\circ C$

Outlets

 $> \text{Brass}$

 $> \text{plastic}$

Dimensions of Meter

DN	L	L1	H	B	Connection	
mm					d	D
15	258	165	104	96	R1/2B	G3/4B
20	294	190	105.5	96	R3/4B	G1B
25	294	190	105.5	96	R1B	G5/4B

Customer Interface Unit (CIU)

- AC power & Dry 4pc AAA Batteries
- LoRa RF wireless com. & infrared com. integrated into 1
- Working distance of 100 - 200m on LoRa but only 5m on Infrared

