



WATER METER

CATALOGUE

- Modular Meter
- Module Customized





About Us

Ningbo Well Energy Technology Co., Ltd manufacture over 20 years water meters & heat meters, and integrated solution provider. Headquartered in Ningbo, the company operates a full-cycle R&D system, advanced production lines, and independent labs with an annual production capacity of 1.8 million units.

Leveraging decades of expertise, Wellmeter delivers comprehensive ultrasonic and modular metering products for residential, commercial, agricultural, and industrial applications worldwide, serving over 60 countries with proven project experience.

As a core supplier in smart water management, Wellmeter enables utilities to achieve remote monitoring and intelligent control via M-BUS, RS-485, LoRaWAN, LoRa, NB-IoT, Pulse output and 4G. The company also exports complete technologies and equipment to support partners in localizing ultrasonic meter production.

Mission: Building long-term partnerships globally through premium products and services.



Advantage

Extensive Expertise



We deliver water meter module & ultrasonic water meter enclosures custom-designed for your PCB layout. Our solutions precisely accommodate component placement and board dimensions, ensuring seamless integration.

Quality Assurance



Robust Manufacturing Capabilities: State-of-the-art facilities, scalable production capacity, strict quality control (ISO certified).

Customization & Flexibility



Tailored Scalable Solutions: Tailor-made solutions adapted to your exact specifications and brand identity.

One-stop Service



End-to-End Solutions: Fully integrated services from concept & design to manufacturing, testing, and logistics.

Global Network

60+
Water Utilities

300+
Clients

1000000+
Smart Water Meters Installed



LXSY-15A-20A

Application

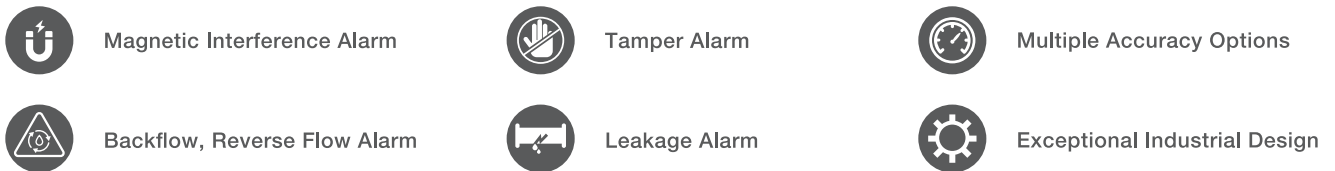
The module can be attached to multi jet water meters, collecting daily data for efficient, accurate metering.

- M-BUS/RS485 Protocol: *EN13757*
- Modbus Baud Option: *2400 or 9600*
- Pulse Option: *1L/Pulse or 10L/Pulse*
- LoRa/LoRaWAN Frequency Rate:
865MHz, 868MHz, 915MHz, 902MHz, 920MHz etc

Communication

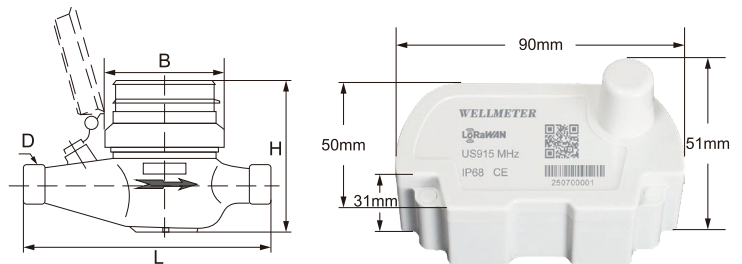


Feature Highlights

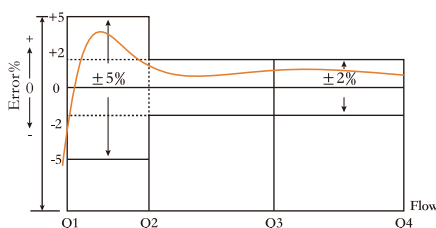


Dimensions

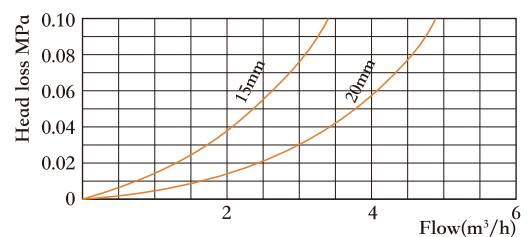
Nominal Diameter (mm)	DN15	DN20
Thread	G3/4B	G1B
L (mm)	165	190
H (mm)	107	107
W (mm)	82	82
Weight (kg)	0.72	0.98



Error Curve



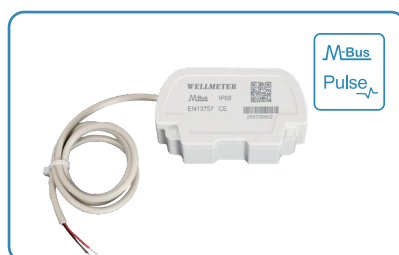
Head Loss Curve



Main Technical Specifications

	DN15		DN20	
$Q_4(Q_{\text{overflow}})\text{m}^3/\text{h}$	3.125	3.125	5	5
$Q_3(Q_{\text{max/permanent}})\text{m}^3/\text{h}$	2.5	2.5	4	4
$Q_2(Q_{\text{transitional}})\text{m}^3/\text{h}$	0.05	0.025	0.08	0.04
$Q_1(Q_{\text{min}})\text{m}^3/\text{h}$	0.03125	0.015625	0.05	0.025
Start Flow Rate m^3/h	0.01	0.005	0.014	0.007
Dynamic Range	R80	R160	R80	R160
Min Reading(m^3)	0.0001			
Max Reading(m^3)	99,999			
Accuracy Class	Class B, Class C, Class 2 (R80, R100, R160)			
Standard	ISO4064 / OIML R49			
Measured Medium	Water			
Maximum Permissible Error For The Lower Flow Rate Zone	$\pm 5\%$			
Maximum Permissible Error For The Upper Flow Rate Zone	$\pm 2\%$ for water having a temperature $< 30^\circ\text{C}$ $\pm 3\%$ for water having a temperature $> 30^\circ\text{C}$			
Operating Temperature	$-10^\circ\text{C} \sim 55^\circ\text{C}$			
Accidental Temperature	$-20^\circ\text{C} \sim 55^\circ\text{C}$			
Max Loss(ΔP)	$\Delta p63$			
Max Pressure(MAP)	MAP16			
Environmental Classification	Class B			
Protection Class	IP68			
Body Material	Brass			
The Installation Sensivity	U0/D0			
Climatic and Mechanical Environmental Grades	M1			
Communication	Optical Port, M-bus, RS485, Pulse output, LoRa, LoRaWAN, NB-IoT, 4G			
Installation Direction	Horizontal			
Power Source	Lithium batteries			
Module Battery Lifetime	10-15 years			
Historical Storage Data	1080 hours, 180 days, 24 months			

Compatible Modules



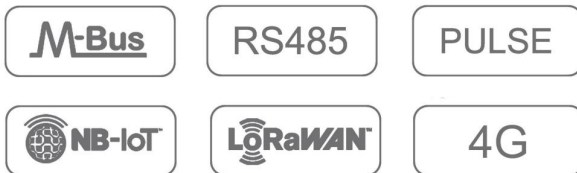
MJWM-15A-20A

Application

MJWM-15A-20A is a multi-connectivity Modules for LoRaWAN, 4G, NB-IoT, M-bus, RS485 etc data collection.

- M-BUS / RS485 Protocol: EN13757
- Modbus Baud Option: 2400 or 9600
- Pulse Option: 1L/Pulse or 10L/Pulse
- LoRa / LoRaWAN Frequency Rate: LoRa Alliance Open Standards
865MHz, 868MHz, 915MHz, 902MHz, 920MHz, etc
- NB-IoT: 3GPP Standards Technology
- 4G / LTE: Open Standards 3GPP

Communication



1



2



3



Features

- Magnetic Interference Alarm
- Tamper Alarm
- Battery Alarm
- Backflow, Reverse Flow Alarm
- Leakage Alarm
- Easy & Secure Installation

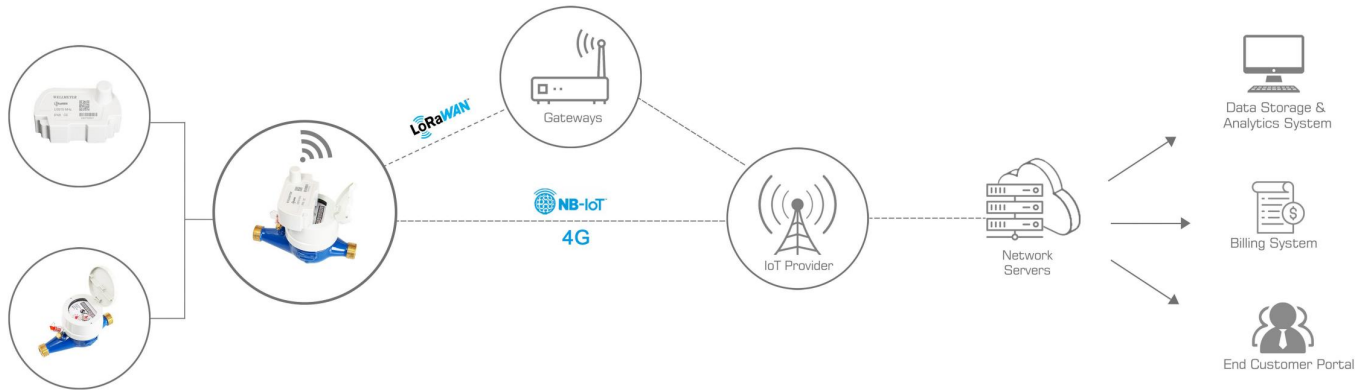
Main Technical Specifications

Functional Specifications	
Power source	Lithium batteries
Protection	IP 68
Relative humidity	0 to 100% - submersible
Operating temperature	-10°C / +55°C
Accidental temperature	-20°C / +70°C
Battery lifetime	Up to 14 years
LoRaWAN specification	
Frequency	865MHz, 868MHz, 915MHz, 902MHz, 920MHz, etc
Encryption	AES128
Standardisation	LoRa-Alliance open standard
NB-IoT specification	
Baud	LTE B1/B2/B4/B5/B8/B12/B13/B17/B18/B19/B20/B26/B28/B66, support custom frequency baud configuration
4G specification	
Baud	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B26/B28/B38/B39/B40/B41/B42/B43/B66
APN Configuration	APN need to be provided



Interoperable With Open Standards

LoRaWAN / NB-IoT / 4G



SJWM-13B-25B

Application

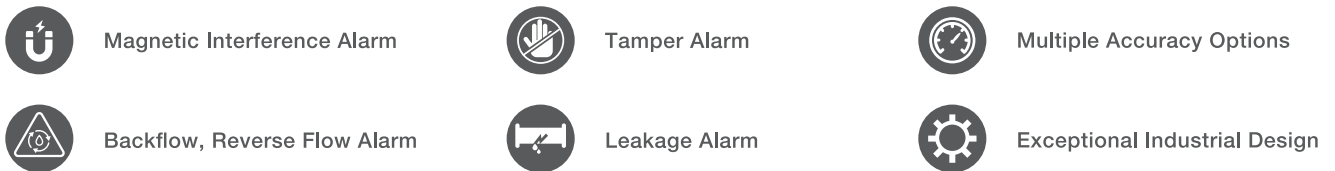
The module can be attached to single jet water meters, collecting daily data for efficient, accurate metering.

- M-BUS/RS485 Protocol: *EN13757*
- Modbus Baud Option: *2400 or 9600*
- Pulse Option: *1L/Pulse or 10L/Pulse*
- LoRa/LoRaWAN Frequency Rate:
865MHz, 868MHz, 915MHz, 902MHz, 920MHz etc

Communication

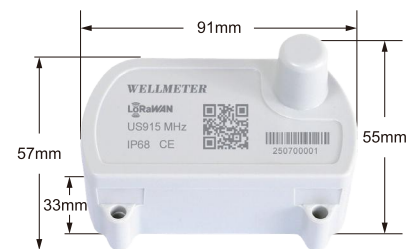
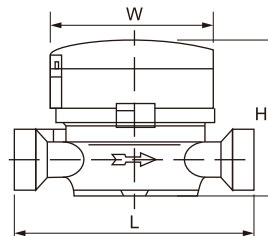


Feature Highlights

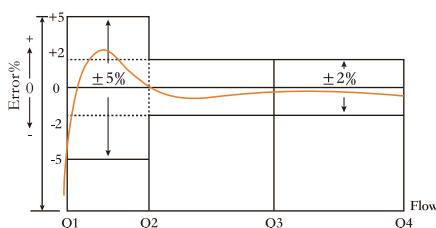


Dimensions

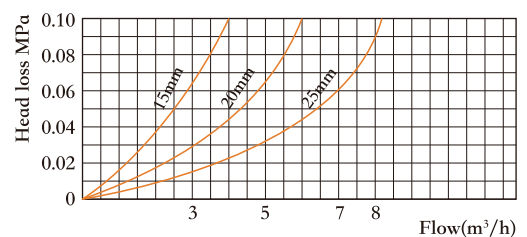
Nominal Diameter (mm)	DN15	DN20	DN25
Thread	G3/4B	G1B	G1 1/4B
L (mm)	110	130	160
H (mm)	80	85	90
W (mm)	80	80	80
Weight (kg)	0.57	0.68	0.91



Error Curve



Head Loss Curve



Main Technical Specifications

	DN15		DN20		DN25	
$Q_4(Q_{\text{overflow}})\text{m}^3/\text{h}$	3.125	3.125	5	5	7.875	7.875
$Q_3(Q_{\text{max/permanent}})\text{m}^3/\text{h}$	2.5	2.5	4	4	6.3	6.3
$Q_2(Q_{\text{transitional}})\text{m}^3/\text{h}$	0.05	0.025	0.08	0.04	0.126	0.063
$Q_1(Q_{\text{min}})\text{m}^3/\text{h}$	0.03125	0.015625	0.05	0.025	0.07875	0.039375
Start Flow Rate m^3/h	0.01	0.005	0.014	0.007	0.02	0.012
Dynamic Range	R80	R160	R80	R160	R80	R160
Min Reading(m^3)	0.0001					
Max Reading(m^3)	99,999					
Accuracy Class	Class B, Class C, Class 2 (R80, R100, R160)					
Standard	ISO4064 / OIML R49					
Measured Medium	Water					
Maximum Permissible Error For The Lower Flow Rate Zone	$\pm 5\%$					
Maximum Permissible Error For The Upper Flow Rate Zone	$\pm 2\%$ for water having a temperature $< 30^\circ\text{C}$ $\pm 3\%$ for water having a temperature $> 30^\circ\text{C}$					
Operating Temperature	$-10^\circ\text{C} \sim 55^\circ\text{C}$					
Accidental Temperature	$-20^\circ\text{C} \sim 55^\circ\text{C}$					
Max Loss(ΔP)	$\Delta p63$					
Max Pressure(MAP)	MAP16					
Environmental Classification	Class B					
Protection Class	IP68					
Body Material	Brass					
The Installation Sensivity	U0/D0					
Climatic and Mechanical Environmental Grades	M1					
Communication	Optical Port, M-bus, RS485, Pulse output, LoRa, LoRaWAN, NB-IoT, 4G					
Installation Direction	Horizontal					
Power Source	Lithium batteries					
Module Battery Lifetime	10-15 years					
Historical Storage Data	1080 hours, 180 days, 24 months					

Compatible Modules



SJWM-13C-25C

Application

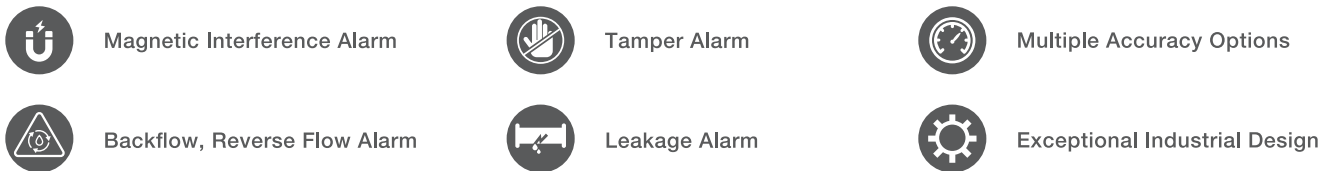
The module can be attached to single jet water meters, collecting daily data for efficient, accurate metering.

- M-BUS/RS485 Protocol: *EN13757*
- Modbus Baud Option: *2400 or 9600*
- Pulse Option: *1L/Pulse or 10L/Pulse*
- LoRa/LoRaWAN Frequency Rate:
865MHz, 868MHz, 915MHz, 902MHz, 920MHz etc

Communication

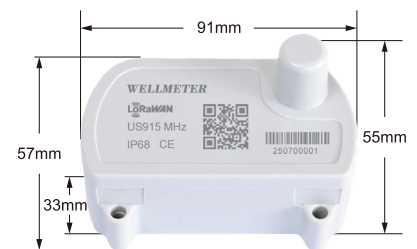
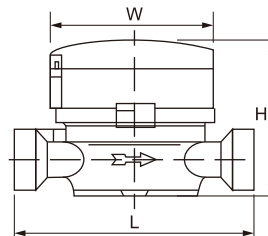


Feature Highlights

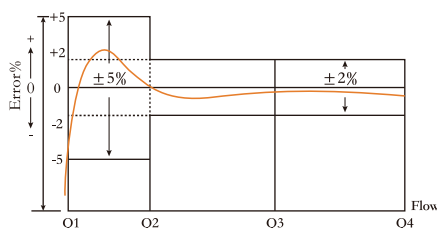


Dimensions

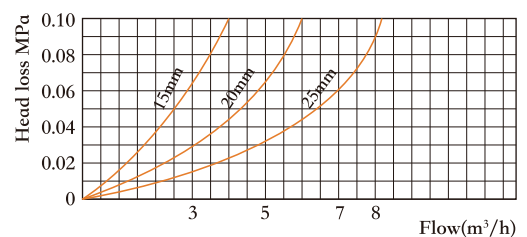
Nominal Diameter (mm)	DN15	DN20	DN25
Thread	G3/4B	G1B	G1 1/4B
L (mm)	110	130	160
H (mm)	80	85	90
W (mm)	80	80	80
Weight (kg)	0.35	0.62	0.90



Error Curve



Head Loss Curve



Main Technical Specifications

	DN15		DN20		DN25	
$Q_4(Q_{\text{overflow}})\text{m}^3/\text{h}$	3.125	3.125	5	5	7.875	7.875
$Q_3(Q_{\text{max/permanent}})\text{m}^3/\text{h}$	2.5	2.5	4	4	6.3	6.3
$Q_2(Q_{\text{transitional}})\text{m}^3/\text{h}$	0.05	0.025	0.08	0.04	0.126	0.063
$Q_1(Q_{\text{min}})\text{m}^3/\text{h}$	0.03125	0.015625	0.05	0.025	0.07875	0.039375
Start Flow Rate m^3/h	0.01	0.005	0.014	0.007	0.02	0.012
Dynamic Range	R80	R160	R80	R160	R80	R160
Min Reading(m^3)	0.0001					
Max Reading(m^3)	99,999					
Accuracy Class	Class B, Class C, Class 2 (R80, R100, R160)					
Standard	ISO4064 / OIML R49					
Measured Medium	Water					
Maximum Permissible Error For The Lower Flow Rate Zone	$\pm 5\%$					
Maximum Permissible Error For The Upper Flow Rate Zone	$\pm 2\%$ for water having a temperature $< 30^\circ\text{C}$ $\pm 3\%$ for water having a temperature $> 30^\circ\text{C}$					
Operating Temperature	$-10^\circ\text{C} \sim 55^\circ\text{C}$					
Accidental Temperature	$-20^\circ\text{C} \sim 55^\circ\text{C}$					
Max Loss(ΔP)	$\Delta p63$					
Max Pressure(MAP)	MAP16					
Environmental Classification	Class B					
Protection Class	IP68					
Material	Composite plastic					
The Installation Sensivity	U0/D0					
Climatic and Mechanical Environmental Grades	M1					
Communication	Optical Port, M-bus, RS485, Pulse output, LoRa, LoRaWAN, NB-IoT, 4G					
Installation Direction	Horizontal					
Power Source	Lithium batteries					
Module Battery Lifetime	10-15 years					
Historical Storage Data	1080 hours, 180 days, 24 months					

Compatible Modules



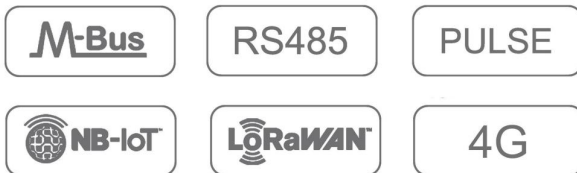
SJWM-13M-25M

Application

SJWM-13M-25M is a multi-connectivity Modules for LoRaWAN, 4G, NB-IoT, M-bus, RS485 etc data collection.

- M-BUS / RS485 Protocol: EN13757
- Modbus Baud Option: 2400 or 9600
- Pulse Option: 1L/Pulse or 10L/Pulse
- LoRa / LoRaWAN Frequency Rate: LoRa Alliance Open Standards
868MHz, 915MHz, 902MHz, 920MHz, etc
- NB-IoT: 3GPP Standards Technology
- 4G / LTE: Open Standards 3GPP

Communication



1



2



3



Features

- Magnetic Interference Alarm
- Tamper Alarm
- Battery Alarm
- Backflow, Reverse Flow Alarm
- Leakage Alarm
- Easy & Secure Installation

Main Technical Specifications

Functional Specifications	
Power source	Lithium batteries
Protection	IP 68
Relative humidity	0 to 100% - submersible
Operating temperature	-10°C / +55°C
Accidental temperature	-20°C / +70°C
Battery lifetime	Up to 14 years
LoRaWAN specification	
Frequency	868MHz, 915MHz, 902MHz, 920MHz, etc
Encryption	AES128
Standardisation	LoRa-Alliance open standard
NB-IoT specification	
Baud	LTE B1/B2/B4/B5/B8/B12/B13/B17/B18/B19/B20/B26/B28/B66, support custom frequency baud configuration
4G specification	
Baud	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/B20/B26/B28/B38/B39/B40/B41/B42/B43/B66
APN Configuration	APN need to be provided



Interoperable With Open Standards

LoRaWAN / NB-IoT / 4G

