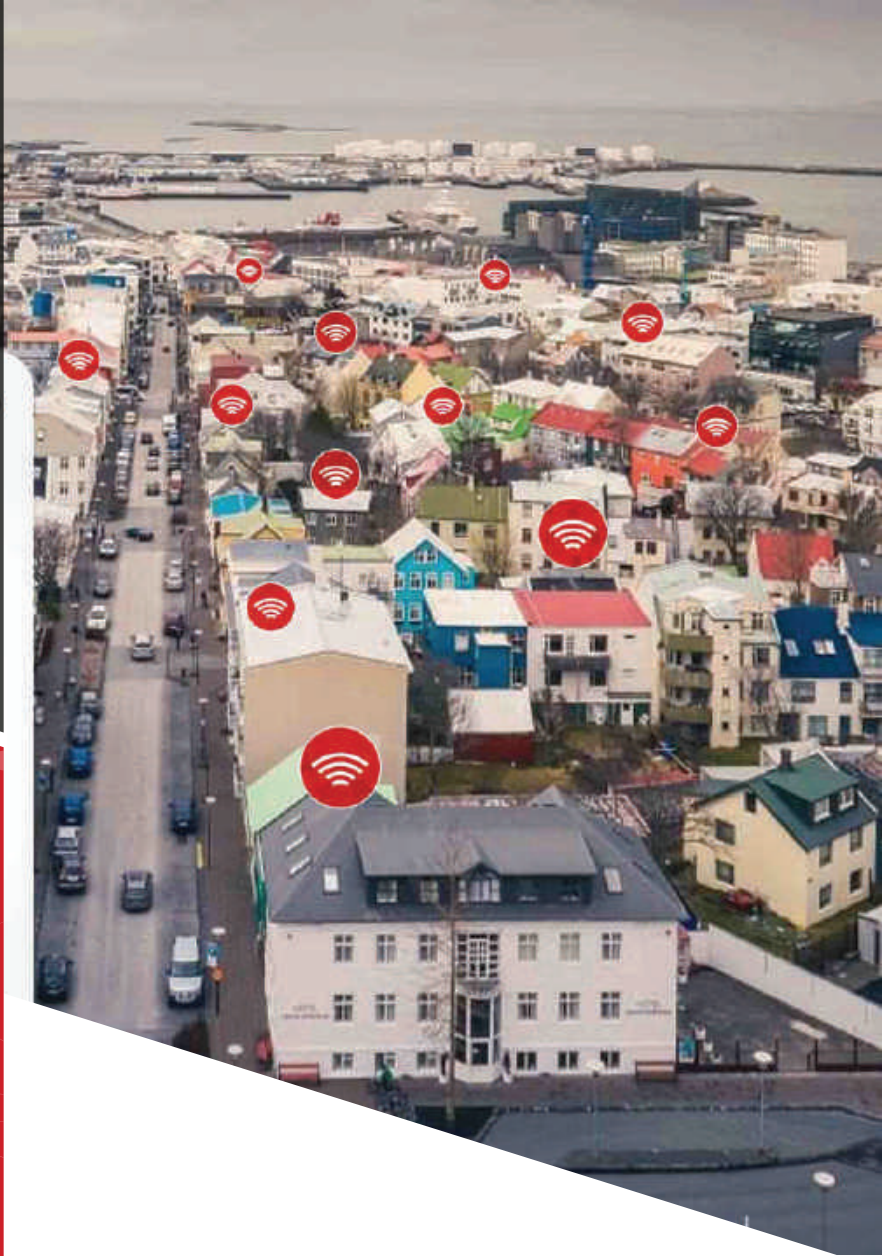




FLOW
SMART METERING SOLUTIONS

SMART METERING SOLUTIONS

Model
EFW01A Series



FLOW[®]
SMART METERING SOLUTIONS

FLOW
SMART METERING SOLUTIONS

www.flowsmart.io

A simpler, more efficient and reliable utility metering system. From installing the smart meter to automated data collection using cloud technology, usage analytics, grievance handling to billing customers

Flow does it all. With its portable and ergonomic hardware design, user friendly software & state of the art technologies Flow enhances efficiency and ease of use in utility management

**FOR MORE DETAILS
CONTACT US**

+91- 9744815290 : **PHONE**
sales@troncart.com : **MAIL**

FLOW

SMART METERING SOLUTIONS

- ✓ Water Meters
- ✓ Data Analytics, Billing and Management
- ✓ Apartment and Enterprise Softwares
- ✓ Fraud and Leakage Detection
- ✓ Secure Hardware Body and Design
- ✓ Easy Installation Steps



SMART METER SYSTEM



MANAGEMENT SYSTEM & MOBILE APP



ANALYTICS TOOL



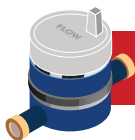
BILLING SYSTEM



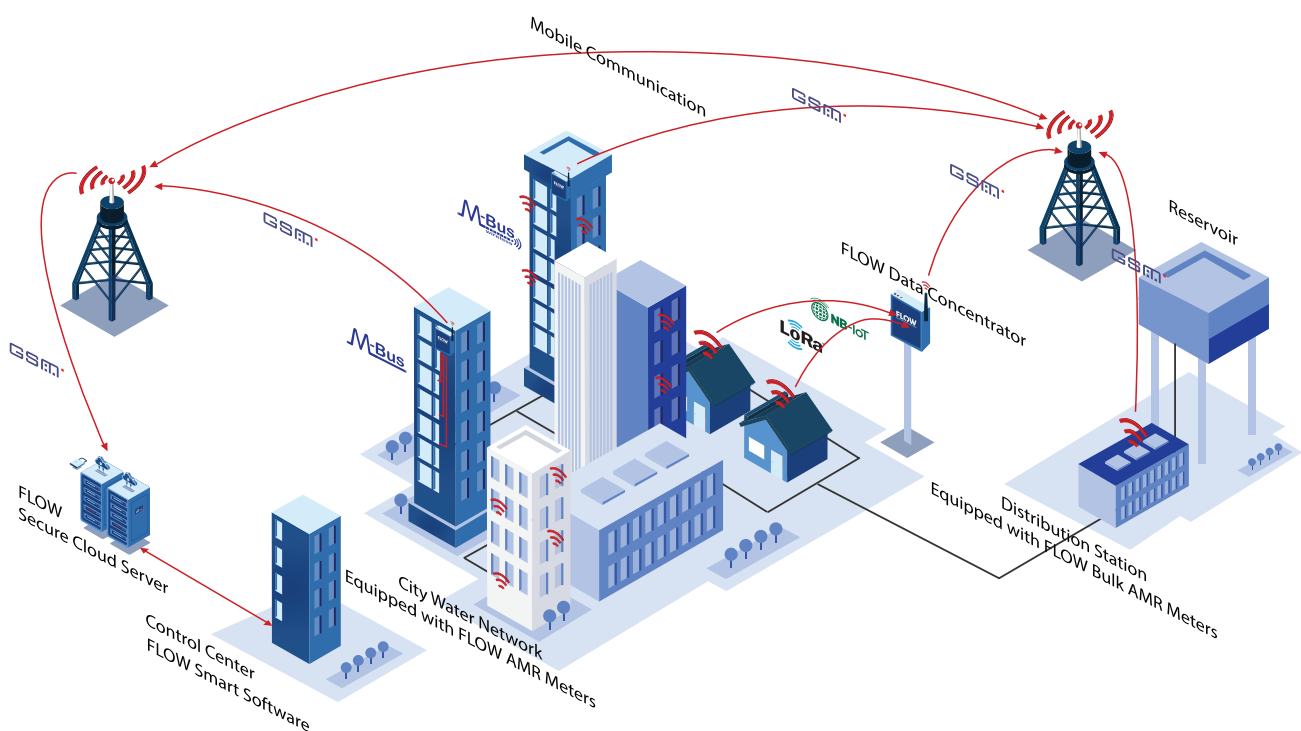
CUSTOMER PORTAL & MOBILE APP



SUPPORT SYSTEM



WATER METERS





FLOW
SMART METERING SOLUTIONS

Model

EFW01A Series

Multi jet - Dry Dial, Class B.

Pre-equipped for AMR Application

Model

EFW01A Series

Technical Spec: Multi jet, Dry Dial, Class 'B' Standard

- Mature Design, careful selection of material and quality control at different stages of manufacturing ensures that Everest meters are precise, robust and durable
- High quality wear resistant finest materials are used. Special attention is paid to moving parts, self lubricated for longer life.
- Roller counter mechanism is driven through a magnetic coupling. It is completely separated from water and always stays clean and easily readable, even under adverse conditions.
- The rotor is the only part which moves in water. It has a defined two point bearing and runs on sapphire jewel bearings.
- Have equally spaced tangential holes in the measuring chamber through which the water flows and impinges on the impeller equally on all sides. There being no side thrust, the bearing wear is reduced to its minimum.
- Long durability & elevated precision guaranteed
- Offer high measurement sensitivity and accuracy.
- Hot water meters < 90° also available.
- Corrosion & sedimentation free.
- Suitable for water temperature upto 45°C

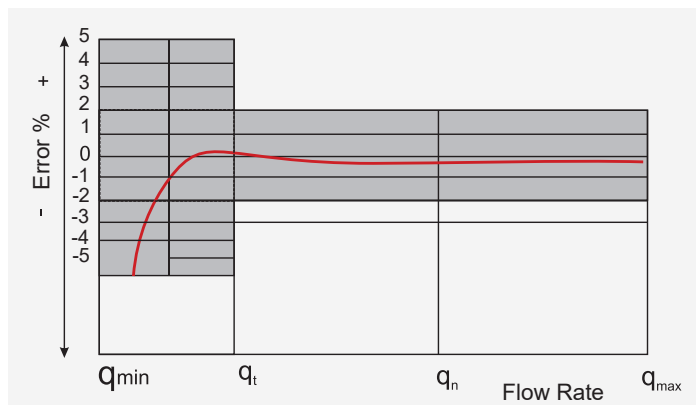


Sizes: 15mm, 20mm, 25mm, 40mm, 50mm.

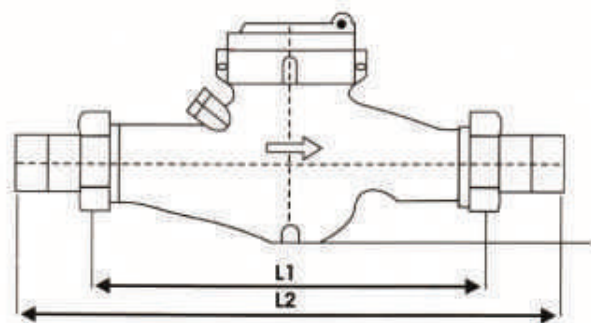
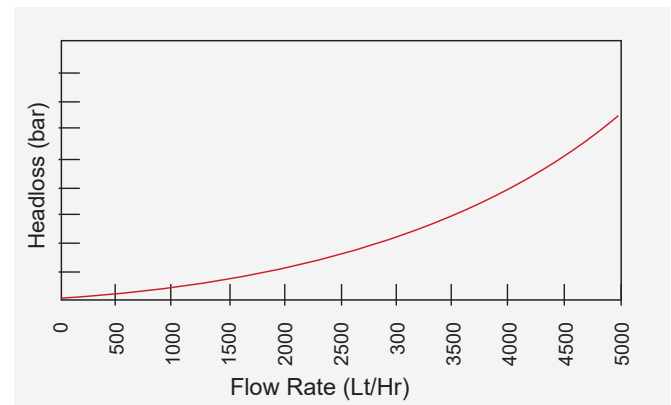
Performance Table

Size of Meter mm				15	20	25	40	50
Q_{max}	Maximum Peak flow	$\pm 2\%$	l/h	3000	5000	7000	20000	3000
Q_n	Nominal Flow	$\pm 2\%$	l/h	1500	2500	3500	10000	15000
Q_t	Transitional Flow	$\pm 2\%$	l/h	120	200	280	800	1200
Q_{min}	Min. Flow	$\pm 5\%$	l/h	30	50	70	200	300
	Test Pressure	P_N	bar	16	16	16	16	16
	Length Face to Face	L_1		165	190	260	300	330
	Length with Pipes	L_1		250	290	380	430	470

Accuracy Curve



Pressure Loss Curve





EFW01A Series has been designed to allow wireless remote reading in different types of applications from the residential sector to the commercial and industrial sectors. The radio module thanks to the presence of the magnetic pointer on the counter and can offer the following functions listed below and allows the reading of the counter without constraints of access to the site in direct reading mode or AMR (automatic meter reading).

The EFW01A Series is compatible with all the predisposed multiple jet meters (wet dial, semi-dry dial, dry dial), uses the LoRa standard and is compliant with the LoRa WAN protocol* (*Optional Feature available on request).

- Fraud control (Following can be identified with our system - Removal of the radio module, Application of external magnetic field, Reverse flow, Identification of system loss)
- Magnetic tampering at the counter and removal are recorded and reported to the receiving system via radio transmission.
- Automatic update of battery life for easier maintenance of the AMR system.
- Easy configuration through mobile application.
- IP68 protection* allows the use of the module also for meters installed in difficult environments

Radio interface	LoRa @868 MHz ≤ 25 mW or ≤ 100 mW
Coverage	Up to 7 Km**
Communication Frequency options	169 MHz, 433 MHz, 868 MHz or 915 MHz
Pulse output minimum value (K)	10 liters
Configuration	Technician Device (with Android app)
Battery	Replaceable battery, Primary Cell - Lithium Thionyl Chloride, Battery life 10 years***
Protection class	IP68***
Weight	200 g
Size (l x p x h)	88 x 70 x 50 mm
Working Temperature	+1° / + 60°C
Transmitted data	Volume (consumption), reading time, consumer number, meter serial number , battery status.
Module programming requirements	Android Device (smartphone, tablet, etc.), Intermediate Communication Device

** In optimal signal transmission conditions

*** The battery life strongly depends on the working time window, set during the configuration process and on the environmental conditions

**** IP68: maximum 24 hours of continuous submersion at 1m depth



Flow Software
STATE OF THE ART TECHNOLOGY

FLOW Software

STATE OF THE ART TECHNOLOGY

Flow Solutions comes with a strong, secure AI powered SAAS platform with modules that supports an easy and efficient metering and billing practice.



ADMIN FEATURES

- ✓ Customer Management
- ✓ Customer Accounts Management
- ✓ Grouping of Consumers to Different Sections
- ✓ Complaint Management and assignment to Technician
- ✓ Meter Reading Reports
- ✓ Fraud/Leakage Alert
- ✓ Magnetic Tampering Alert
- ✓ Low Battery Alert
- ✓ Malfunction Alert
- ✓ Consumption Report
- ✓ Consumption Based Billing
- ✓ Payment Tracking
- ✓ Maintenance Task Monitoring
- ✓ Internal Tasks Monitoring
- ✓ Inspections Monitoring



CUSTOMER FEATURES

- ✓ Customer Portal Web and Mobile Application
- ✓ Customer Consumption and Metering Data
- ✓ Consumption Bills



ENTERPRISE FEATURES

- ✓ Consumption Prediction
- ✓ Control Center Feature
- ✓ Grouping of Consumers to Different Sections
- ✓ On Demand Features



DATA CONCENTRATOR

- » **Connectivity** (Available Connectivity Options): LORA(868/433 Mhz) having a range 1 km, NBloT upon request 2G radio on board (4G upon request).
- » **Security Features** Best in class Plastic Body, IP65 Protection class, No wires are coming out from device and thus rodents/birds won't damage meters.
- » **Power Option** Designed with innovative technologies with top quality built-in-battery. Shell Lifetime upto 10 years, ensuring maximum metering precision and communicate over time. Battery can be recharged directly using ~100-200 V or with 12V DC



METER CONFIGURATOR

- » **Usage**
Device is used to configure the water meter through technician mobile application.
- » **Interface**
Android Mobile Application Power: Rechargeable Battery. 5V (micro usb charging port)
- » **Connectivity**
Bluetooth v 4.1



GET IN TOUCH WITH US
STATE OF THE ART TECHNOLOGY

WHY METERING ?



ENHANCED CONSERVATION



IMPROVED CUSTOMER SERVICE



DEMAND FORECASTING



EFFECTIVE DISTRIBUTION

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