

Track, Save & Conserve



with



www.desireenergy.com





About Us

Desire Energy Solutions is a leading national award-winning tech-driven water management company specializing in IoT, AI, and renewable energy solutions. We pioneer ESCO, solar, and infrastructure projects, driving efficiency in public water systems across India. With a strong presence in 100,000+ villages and 14 cities, we power initiatives like the Jal Jeevan Mission, ensuring sustainable and smart water management through cutting-edge technology.

We are pioneers in water infrastructure, transforming the industry with game-changing solutions like Aqualogix Automation and Sunaquator. With 12+ years of experience, we go beyond solutions, we drive innovation, efficiency, and sustainability in water management.

After years of expertise in water management, we proudly introduce the Aqualogix Smart Water Meter – a cutting-edge solution for domestic applications. This battery-operated system provides exceptional accuracy in measuring potable water consumption, revolutionizing the way we manage water efficiently.



Vision

Making public water infrastructure smart, efficient and sustainable.

Mission

To provide water management solutions to every nook and corner of India.

Values



TRUST



TRANSPARENCY



TECHNOLOGY



PARTNERSHIP

Smart Water Meter Applications



Residential Water Usage Monitoring

Precision and efficiency for homeowners to accurately measure potable water consumption, track usage, and manage water bills and Automated readings eliminate the need for manual readings and billing disputes.



Industrial Water Management

Used in industries to monitor water usage for production, cooling, and other processes, ensuring cost-effective and sustainable water consumption. Reliable performance in high-demand situations to optimize water resources.



Municipal Water Supply Systems

Helps municipalities monitor water distribution systems efficiently, ensuring accurate billing and water conservation.

Can be integrated with smart water management systems for real-time monitoring.



Agricultural Applications

Ideal for farms and irrigation systems, allowing farmers to monitor and conserve water usage, leading to cost savings and efficient irrigation practices.



Smart City Integration

A key component of smart city infrastructure, offering real-time, automated water usage tracking and promoting sustainable urban water management.

AquaLogix Smart Water Meter

Battery life upto
15 years

Protection
Level:
IP 68

Interval Configuration for
15, 30 & 60 min

LoRa / M-Bus / NB-IoT
for communication



The **Aqualogix Smart Water Meter** is an advanced, battery-operated solution designed for domestic applications. It uses ultrasonic transit-time technology to measure water flow with exceptional accuracy by analyzing sound wave travel times. With a non-mechanical, maintenance-free design, it eliminates wear and tear, offering long-lasting reliability. Ideal for both urban and remote areas, the meter ensures precise water usage tracking, helping users optimize consumption, reduce waste, and save on costs while supporting sustainable water management.

As per
AMRUT 2.0
Guidelines

FOTA Compatible
(NB-IoT Only)

Ultrasonic
Smart Water Meter

Key Features and Benefits

10+

Years of Experience

As per the
AMRUT 2.0
Guidelines



Ultrasonic Transit-Time Technology

Provides highly accurate water flow measurements by analyzing the difference in sound wave travel times.



Battery-Powered

Operates on a long-life battery, eliminating the need for external power sources, ideal for both urban and remote installations.



Easy Installation & Integration

Compact and lightweight, designed for quick and hassle-free installation. It can be integrated with smart water management systems for real-time monitoring.



Cost Savings

Helps users track water usage, promoting efficient consumption and reducing wastage, leading to lower utility bills.



Sustainable Water Management

Encourages better resource planning and water conservation, aligning with efforts to promote sustainable water use.



Non-Mechanical, Maintenance-Free Design

No moving parts, reducing wear and tear and ensuring long-term reliability with minimal maintenance.



Real-Time Data Tracking

Enables automated readings for accurate water consumption data, reducing human error and billing disputes.



Enhanced Accuracy & Precision

Delivers precise water consumption readings, minimizing errors and offering more reliable data for both consumers and utilities.



Convenient & Hassle-Free

Automated readings eliminate the need for manual meter readings, ensuring a seamless user experience and accurate billing.



Future-Ready Technology

Supports smart city infrastructure and advanced water management systems, preparing users for future water metering innovations.

Product Specifications

Types of Meter

AMI & AMR SMART Water Meter

Ultrasonic & electromagnetic, both types of water meters are allowed. Water meter shall be AMI to provide automatic daily transfer of water meter data to control station along with provision of hand held machines (Work as AMIR System) to collect data in case of any hinderance of data transfer through AMI system for House Service/ Commercial/ Industrial connection.

Operating Conditions

Size	15mm to 50mm
Nature	Cold potable water with suspended particles and chlorine content to local water quality.
Temperature Class	T 50
Maximum Test Pressure	16
Location	Outdoor/ Indoor
Supply Pattern	Intermittent supply, moving towards continuous supply.

Equipment Technical Data

Brand	Aqualogix
Type	AMI & AMR Technology Smart ULTRASONIC Type Water Meter
Design & Manufacturing Standard	ISO 4064:2014, notified body number along with MID certification from recognised international laboratory
Body Pressure Rating	MAP 16
Overall Length of Meter between Connector Faces	As per ISO 4064:2014
Class of Accuracy	Class C, Minimum R-400 or up to R-800
Measuring Units	M ³
Access to Information	Display with >9 digits for main information. Index, Menu and Status symbols for dedicated information
End Connections	Nut and Nipple

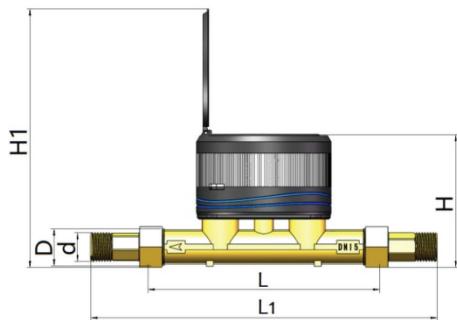
Pressure Loss	As per ISO 4064:2014
Accessories	Self Lockable Seals
LORA Technology Facility	In-built AMI & AMR Technology Communication Module for Automatic Meter Reading
Warranty	60 Months

Material of Construction

Meter Body	Engineering Plastic & Bronze
Caps & Lids	Shall be Manufactured from Unbreakable and Corrosive Material, Corrosion-Wear Resistant and Non-Toxic for Internals
Nuts & Nipples	Engineering Plastic, Brass & Bronze

Mechanical Data

Weight of Water Meter	Supply shall be made strictly as per the Sample Meters. Weight Testing done during Inspection.
Overall Length of Water Meter	DN15-DN40
Rated Flow Accuracy	±5% between Q Min and Q Transit. ±3% between Q Transit and Q Max. OR as per ISO 4064:2014
Protection Class	IP68 Standard for Indoor and Outdoor Operation, including Fully Submerged Installations



Optional 1: Different length

Optional 2: Different material of the meter body

Weight: DN15: 800 g

Weight: DN20: 1000 g

Weight: DN25: 1530 g (with Automated Valve)

Size	Dn15	Dn20	Dn25	Dn32	Dn40
L = Meter Length	110/165	190/195	225/260	260	245/300
L1 = Length with Connection	204/259	294/299	345/380	380	376/431
D	G3/4B	G1B	G1-1/4B	G1-1/2B	G2B
d	R1/2	R3/4	R1	R1-1/4	R1-1/2
H = Height	98	104	115	121	132
H1	185	190	202	210	219

Awards & Recognition



Certificates



Obtained "SP-2B" rating by CRISIL, for the high performance and financial strength



Certified products with CE Marketing. (NABAL, NISEERDA, TUV)



"Innovative Financing & ESCO Model in Energy Efficiency by CII



Certified by Ministry of New/Renewable Energy, Government of India



Certified ESCO Company by Bureau of Energy Efficiency, Government of India



Highest Level of the Capability Maturity Model Integration Certification

Clients



State Water & Sanitation Mission
NAMAMI GANGE AND RURAL WATER SUPPLY DEPARTMENT
(GOVERNMENT OF UTTAR PRADESH)



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