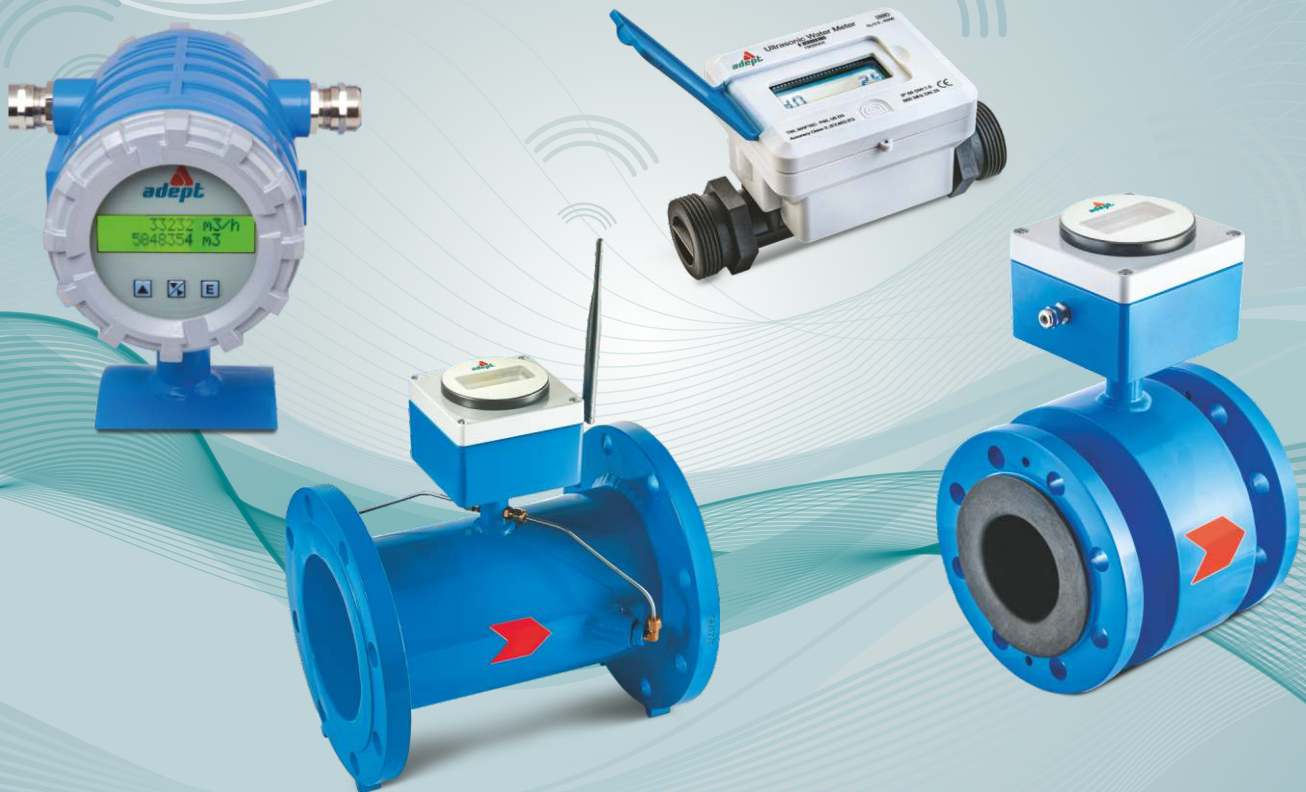


Industry 4.0 & IoT Compatible Flow Instrumentation Solutions

www.AdeptFluidyne.com





“We are passionate about conserving water and developing accountability among users.

We empower them to precisely measure and control water usage with the help of advanced instrumentation solutions and the latest technology.”



Dear Readers,

A clear focus on the future and an understanding of customer expectations have paved the way for Adept to achieve commendable growth within a short span.

Innovation has been the cornerstone of our business. Krishnaji Gadre, a visionary entrepreneur laid the foundation of Adept in the early 1950s by introducing indigenously developed laboratory instruments. During the same period, the advent of electronics was creating new opportunities and we were among the first few to sense this. We addressed the evolving requirements of various businesses through the indigenous development of electronics products.

Adept Fluidyne Pvt. Ltd. was formally established in 1983 and soon, a major breakthrough occurred when a renowned company approached us with the requirement of a Flowmeter. We responded with our inherent enthusiasm by undertaking extensive R&D efforts and the first Electromagnetic Flowmeter was successfully developed. When its performance and accuracy were undoubtedly proved during field trials, we were encouraged to expand our range.

Recently, Adept completed 40 years. A small workshop with a turnover of a few million rupees in 1983 has today grown into an INR 0.35 billion company that has marked its presence in 25 countries with more than 70,000 installations. This wouldn't have been possible without the trust and support of our few thousand esteemed customers across the world and our relentless pursuit of the flow instrumentation technology. Today, we are among one of the largest Flowmeter manufacturers in India with several development records.

After successfully implementing several automation projects, we offer products and solutions that are compatible with Industry 4.0 and IoT. This is a great feature that ensures that the required data is available at your fingertips via your computer and smartphone and that too, remotely and instantaneously.

You are welcome to associate with us and experience our cutting-edge technology and unmatched service efficiency. Our team of experts will be happy to ensure that you get the optimal solution for your requirement.

Sincerely yours,

Vinayak Gadre
Managing Director



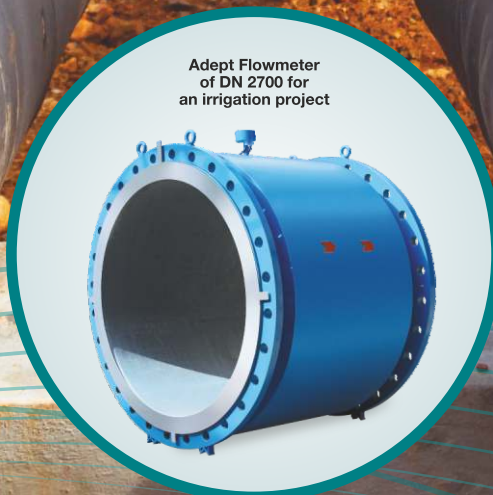
Industry 4.0 &
IoT Compatible

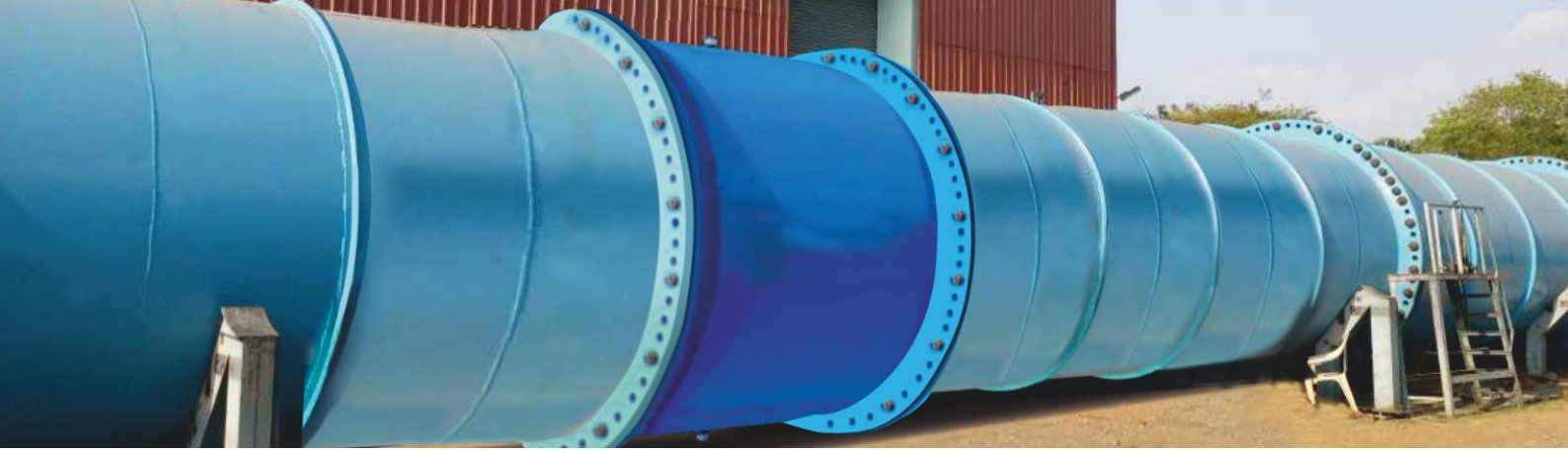


Advanced Technology Flow Instrumentation Solutions



Adept Flowmeter
of DN 2700 for
an irrigation project





About Us

We are one of the largest manufacturers of Electromagnetic and Ultrasonic Flowmeters in India and provide total solutions for Flow Instrumentation, Control, Telemetry, IoT and Smart Metering projects. Our advanced technology solutions meet the challenges of industries, power plants, irrigation projects, drinking water schemes, effluent treatment plants as well as smart cities and residential buildings.

Adept range of Flowmeters is characterised by advanced technology, excellent quality and high reliability to ensure accurate and precise measurement of fluid flow.

We have a large manufacturing facility with two factories operational in Pune, India, certified with IMS (Integrated Management System). This is backed by our in-house Design & Development Centre and the Calibration Laboratory certified with ISO/IEC 17025:2017.

More than 70,000 Flowmeters supplied by us are operational in around 25 countries across the world, meeting the stringent requirements of different sectors. The reliability of our products and the dependability of our services are evident from repeat orders from our customers. Over 40% of our business comes from existing customers.



Industry 4.0 & IoT Compatible Flow Instrumentation Solutions



Products Overview

Advanced technology
Built-in reliability

We offer a large variety of Flowmeters to suit almost every requirement right from domestic water meters (from size DN 15) to Flowmeters for irrigation projects (up to size DN 3000).

Electromagnetic Flowmeters



MagFlow 6410
Inline Mains Operated



MagFlow 6415
Inline Mains Operated



EcoMag 6420
Plastic Body



MagBP 6440
Battery-powered



MagProbe 6450
Insertion Type

Ultrasonic Flowmeters



UFM 6710
Clamp-on, Wall Mount



UFM 6720
Clamp-on, Hand-held



UFM 6730
Insertion Type



UFM 6740
Battery-powered Water Meter

BTU Meter



BTU Meter 6430

Domestic Water Meters



DWM Ultrasonic Water Meter

IoT Gateway 5000



IoT Gateway 5000

Please scan the QR code to know the technical specifications of the product.



Compatibility with Modbus, LAN, GPRS, NB-IoT and LoRaWAN



Rely on us
for competency,
capacity and
customer care



Industry 4.0 & IoT Compatible Flow Instrumentation Solutions

Key Capabilities

▲ Experience

Established in 1983. Experience of nearly 4 decades. Over 70,000 Flowmeters installed in various sectors.

▲ Wide range

One-stop shop for all your flow instrumentation requirements. Total solutions for Electromagnetic & Ultrasonic flow measurements from DN 15 to DN 3000.

▲ Customisation

Find the most appropriate solution for your requirement.

▲ In-house capabilities

In-house facilities from D&D to testing and calibration for Flowmeters up to DN 2000.

▲ Quality & reliability

Strict adherence to various international manufacturing and quality standards. Every Flowmeter undergoes 100% quality check.

▲ Best-in-class practices

We use the Integrated Management System (IMS) and the SAP ERP System as effective tools to be at par with global standards.

▲ Competence

Credited with manufacturing India's first calibrated Flowmeter of size DN 2700. The first in India to develop HDPE Body Flowmeters, and battery and solar-powered Flowmeters.

▲ Automation

Proven IoT solutions with our own developed software.

▲ Capacity

Faster deliveries due to large in-house capacity.

▲ Credibility

Over 40% repeat orders reflect customer confidence. Approved by leading establishments and international certification authorities.

▲ Committed team

Dedicated team of professionals and more than 100 qualified, experienced and trained team members.

▲ Eco-friendly operations

We are proud that our main office and factory are solar-powered. Effluents from various processes are completely treated before discharge.

▲ Wider reach

Nationwide presence through our own dealers and representatives. Exports to around 25 countries.

▲ Benchmark services

A team of expert service technicians supported by advanced software tools to manage operations.





Corporate office &
Manufacturing Plant 1



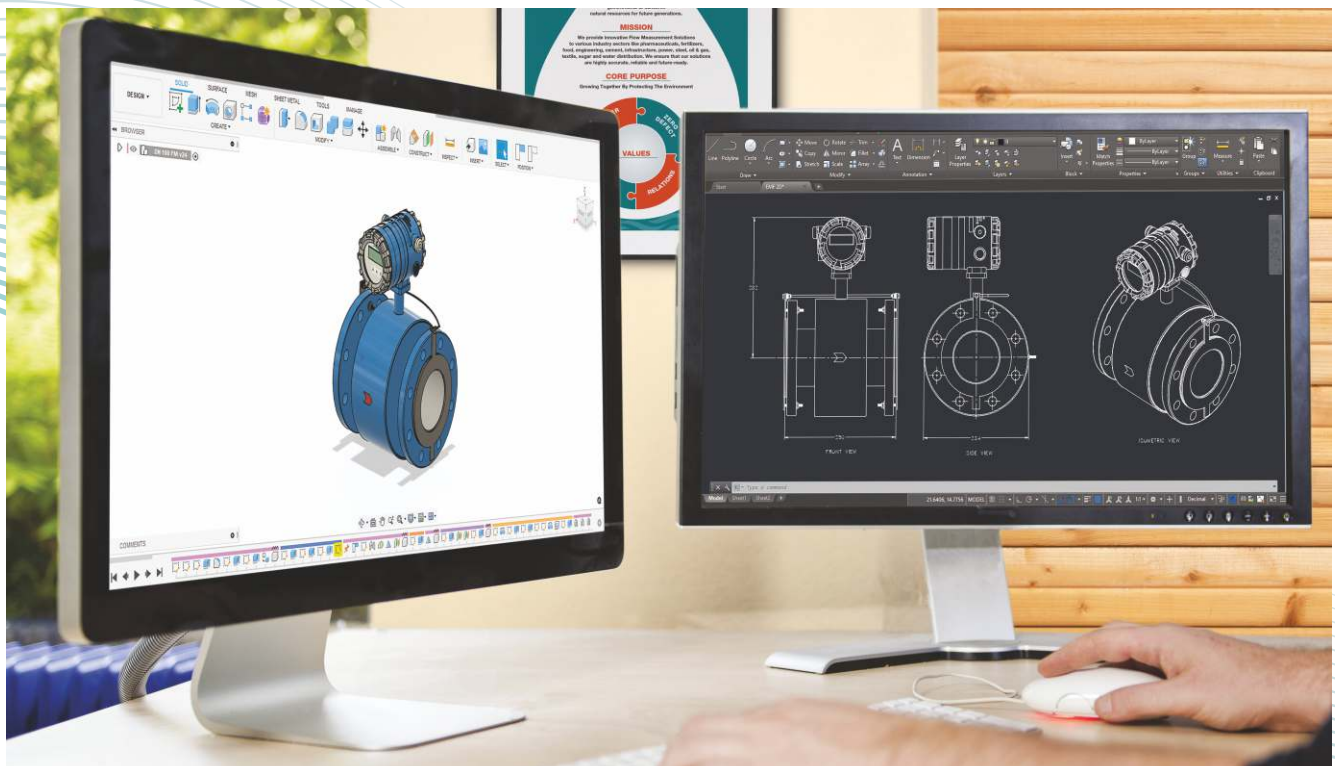
Manufacturing Plant 2

Design & Development Centre

Every requirement is unique and may require customisation. Armed with advanced design tools, our in-house Design & Development team is poised to provide optimal solutions for all your requirements, that too with precision, speed and unmatched competence. We are also constantly upgrading our existing range of products to maintain it at par with international standards. Apart from their advanced features, compatibility with various communication ports and reliable functionality, our products are also ergonomically and aesthetically designed ensuring real value for your money.



Recipient of Prestigious India Design Mark



Industry 4.0 & IoT Compatible Flow Instrumentation Solutions



Electronics Manufacturing

Our in-house design and testing facility for the electronics required in our products, gives us an edge over our competitors by helping us exercise strict quality control. We are capable of handling volumes through a dedicated network of PCB assembly partners. The use of the latest manufacturing techniques such as wave soldering and automatic SMT machines ensures precision while enhancing productivity. A specially developed testing set-up is used for hundred percent checking of every assembled PCB before it goes into the final assembly of a Flowmeter.

Fastest growing Flowmeter manufacturer

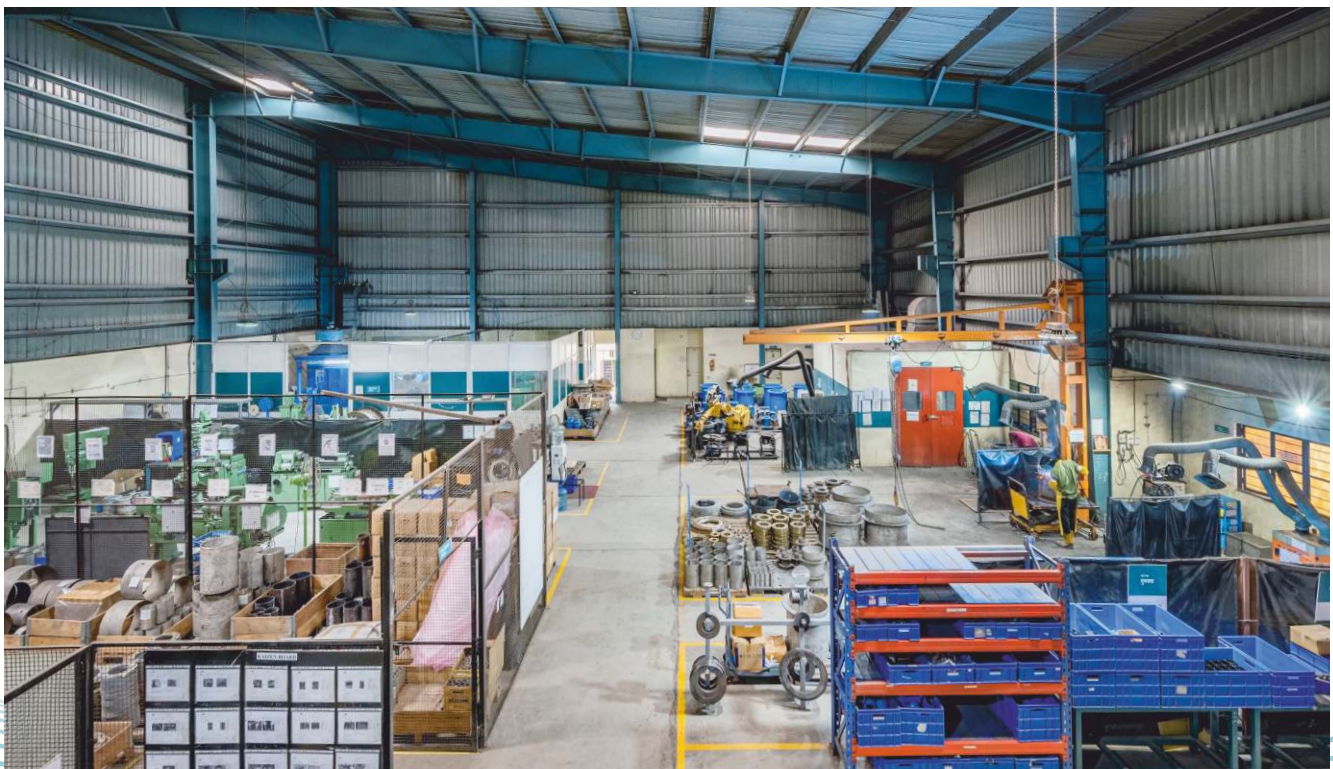




Quality at every step
Reliability in every aspect

Mechanical Manufacturing

We have a sizeable manufacturing set-up of 1100 sq.m. (Plant-1) at Kothrud, Pune, India. Additionally, we have recently commissioned a new factory in Pune (Plant-2) of 1100 sq.m. area. The new factory is equipped with the latest machines for drilling, machining, grinding, pressure testing as well as Robotic welding, and specially developed flange assembly fixtures. Most of the times, our Flowmeters are used in outdoor environments. To ensure that they are resistant to corrosion and weathering, they undergo shot blasting, primer coating of good quality, and PU painting.



Industry 4.0 & IoT Compatible Flow Instrumentation Solutions

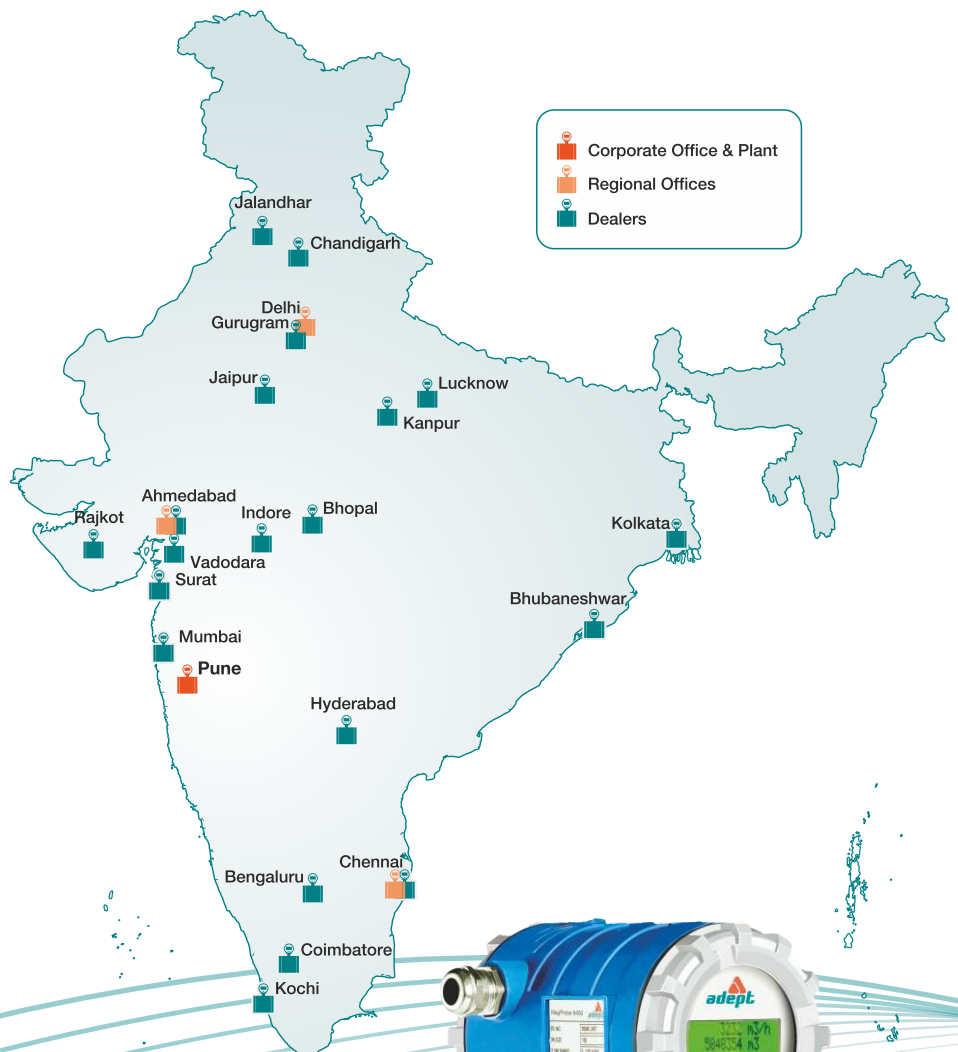


Quality Assurance and Service

Quality is an inherent aspect of all our Flowmeters and a habit for everyone working at Adept. Every Flowmeter undergoes stringent quality control for precision and performance. Most of the times, our Flowmeters do not require periodic servicing except for changing of batteries. A few of our Flowmeter installations are almost two decades old and have never required the visit of a service engineer except for mandatory calibrations.

If you do require a service for Flowmeter selection, installation or on-site calibration, we have a wide network of our own offices and dealers across India. We ensure that quick support is available even in remote areas of the country. Our overseas installations are supported by our local representatives. While our Flowmeters are simple to install, in case you require support for installation, we shall depute our expert engineer to your site.

Wide network of over 50 dealers





ISO/IEC 17025:2017 accredited calibration laboratory for Flowmeters

Calibration Services

We have a well-equipped, NABL accredited Calibration Laboratory since 1994. Recently, we have installed an additional Tower Rig Type calibration set-up, which is suitable for calibrating Flowmeters of up to DN 2000 with a lab uncertainty of 0.1%. Now, the entire calibration set-up is certified with ISO/IEC 17025:2017.

At these labs, the calibration can be carried out as per

- ▲ ISO 4185 gravimetric weighing type for flow rate calibration
- ▲ Volumetric tower comparison method for totaliser calibration
- ▲ Master meter comparison method

We also offer '**On-site Calibration Check Service**', which is carried out using our Portable Ultrasonic Flowmeter. This meter is placed alongside the meter that needs to be calibrated and both the Flowmeter readings are compared.

Domestic Water Meter Testing Bench



Industry 4.0 & IoT Compatible Flow Instrumentation Solutions



Quick Calibration up to DN 150



Calibration up to DN 500



Calibration up to DN 2000



Certifications

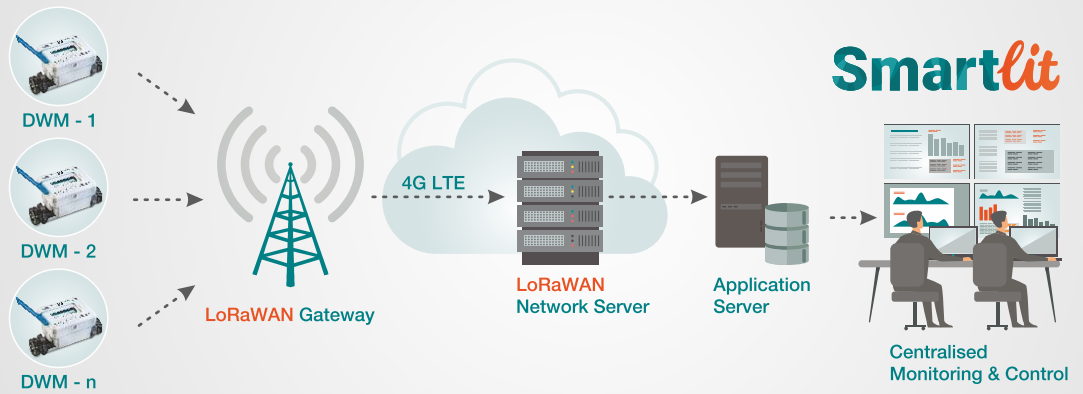
- ▲ IMS Certification
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
- ▲ NABL accredited
calibration laboratory
ISO/IEC 17025:2017
- ▲ ISO 3834 Level 2
Certification for Welding Quality
- ▲ NSF International, USA
certification for compliance
with NSF/ANSI/CAN 61
- ▲ Food Grade Certificate
from CSIR-CFTRI
- ▲ HART Certification
- ▲ Awarded with
India Design Mark

Approved by

- | | | |
|---|------------------------|--------------------------|
| ▲ APGENCO | ▲ MIDC | ▲ PMC |
| ▲ BHEL | ▲ MJP | ▲ RVUN |
| ▲ DWSD,
Jharkhand | ▲ MLIP,
Odisha | ▲ RWSS, Odisha |
| ▲ GWSSB | ▲ MSEDCL | ▲ TSGENCO |
| ▲ IREL | ▲ NMC | ▲ U.P. Jal Nigam |
| ▲ KMC (Korba
Municipal
Corporation) | ▲ NTPC | ▲ VMC |
| ▲ KMDA | ▲ PDIL | ▲ WRD,
Madhya Pradesh |
| ▲ M.P.
Jal Nigam | ▲ PHED,
Rajasthan | ▲ WRD, Maharashtra |
| | ▲ PHED,
West Bengal | |

**DWM
Ultrasonic
Water Meter**

**LoRaWAN
Architecture**

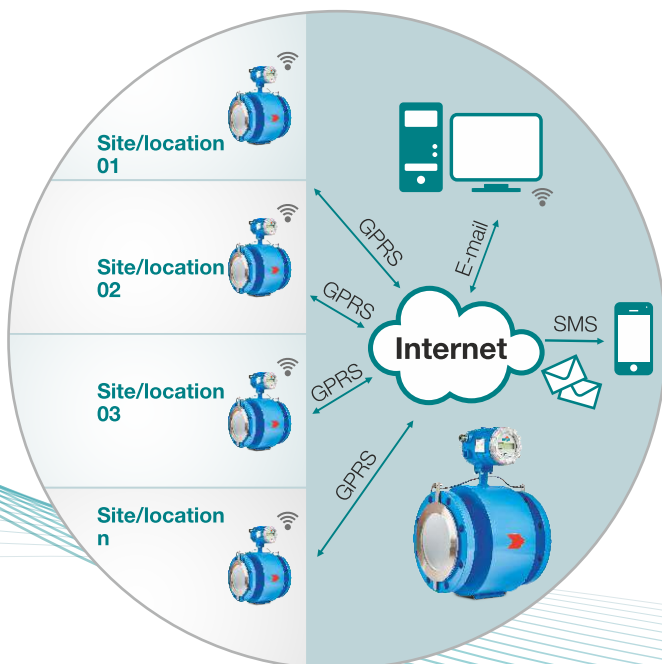


What is a Smart Meter?

Smart Flowmeters are meters that are capable of transferring data accurately without human intervention. These meters are IoT-enabled so that the metering data can be logged and stored remotely without breaching the privacy of customers.

- Smart Meter avoids human error
- Gives accurate and precise readings
- Enables decision making and acts as a tool to manage the water distribution network efficiently

Smart Meters are best suited for smart cities, water supply schemes, lift irrigation schemes, IT parks, large factories, industrial complexes and CETPs.



IoT & Smart Metering Solutions

Smartlit

IoT Platform

Your next step towards Industry 4.0

Adept has developed **IoT Platform - Smartlit**, which is ideal for companies using several Flowmeters. **Smartlit** allows you to retrieve data on water consumption from Flowmeters installed at remote sites, that too, from the comfort of a centralised control room.

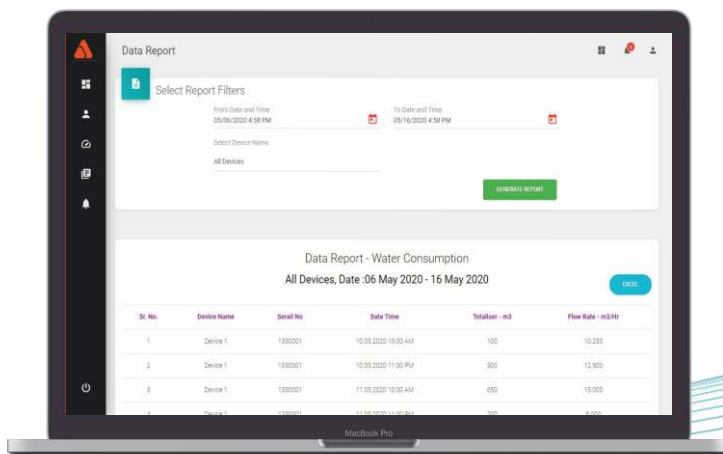
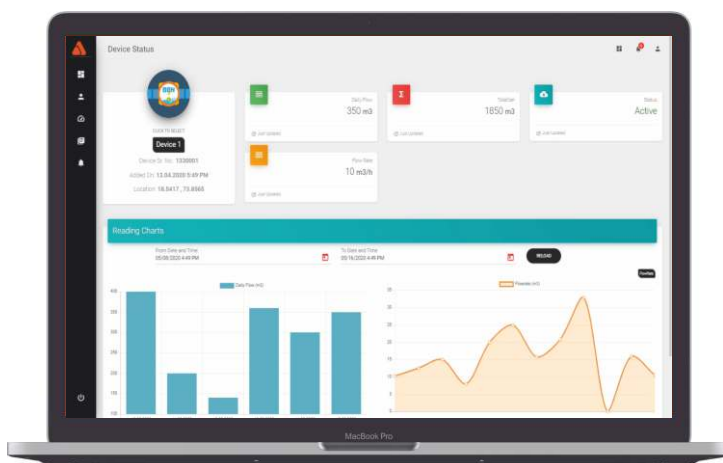
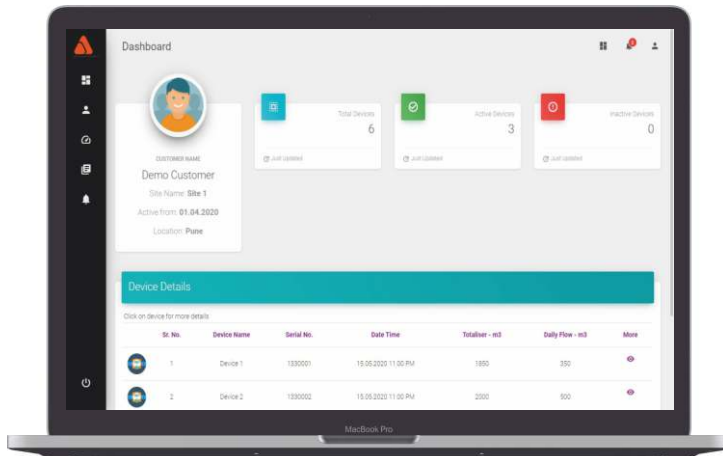
The mode of communication can be wired (Ethernet) or wireless (GPRS, NB-IoT, LoRaWAN). The **Smartlit** IoT Platform is useful for compiling, viewing and printing data. Through the compilation of such data, it is possible to understand the usage pattern and take corrective measures for optimising water usage. A 'Billing Feature' has also been implemented to commercialise the water usage.

Smartlit is most useful for process plants such as sugar, fertilisers, chemicals, pharmaceuticals, food & beverages, power plants, cooling towers, ETPs, STPs and WTPs.

Industry 4.0 & IoT Compatible Flow Instrumentation Solutions



Typical IoT Screens



Prestigious Projects

- ▲ **Automix/Kaasma**
Mobile STP
- ▲ **Bajaj Hindusthan Sugar Ltd.**
Sugar Processing Plant
- ▲ **Bhabha Atomic Research Centre**
HVAC System
- ▲ **Chhabra Thermal Power Plant**
Power Plant
- ▲ **Dabur Nepal Private Limited**
Food Processing Plant
- ▲ **JSW Steel Ltd.**
Steel Plant
- ▲ **K Raheja Corp**
Integrated Building Management System
- ▲ **Larsen & Toubro Ltd.**
Sauni Yojana – Water Distribution Network
- ▲ **National Physical Laboratory**
Setting up Water Meter and Flowmeter Testing and Calibration Facility
- ▲ **Palsana Enviro Protection Limited**
Common Effluent Treatment Plant
- ▲ **Pandesara Infrastructure Ltd.**
Common Effluent Treatment Plant
- ▲ **Saswad Nagar Parishad**
Drinking Water Distribution Scheme
- ▲ **Spectrum Dyes & Chemicals Pvt. Ltd.**
Slurry Feed to Spray Drier
- ▲ **Vidarbha Irrigation Development Corporation**
Water Distribution Network

Global Presence

Adept Flowmeters are exported to around 25 countries across the world. They are being used for a variety of applications from drinking water projects in Kenya to process plants in the Middle East. Superior quality, excellent precision and accuracy, quick deliveries and efficient support are the reasons why companies in Europe and the USA prefer our Flowmeters.

Exports to around 25 countries



Maps shown here are the pictorial representations and does not purport to be the political maps.



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