Industry 4.0 & IoT Compatible
Flow Instrumentation Solutions
Dear Readers,

Clear focus on the future and understanding customer expectations has paved the way for Adept achieving nearly 25% CAGR in the last five years. Innovation-led growth has been the cornerstone of our business since its inception.

Krishnaji Gadre, a visionary entrepreneur laid the foundation of Adept in the early 50s. Indigenously developed laboratory and weather recording instruments were the initial products of the company. During the same period, advent in electronics was creating new opportunities and we were among the first few to sense it. Over the years, we addressed evolving requirements of various businesses through indigenous development of new technology 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 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 harness the technology for flow monitoring across various industries.

Today, we are among one of the largest Flowmeter manufacturers in India with several development records to our credit and an impressive list of customers from different sectors from across the world.

After successfully implementing several IoT projects, we are now offering products and solutions that are compatible with Industry 4.0 and IoT. This is a great feature that ensures that the data you require is available at your fingertips via your computer and smartphone and that too, remotely and instantaneously. It is particularly useful when you want to exercise precise control on process parameters or simply create water accountability among users.

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

Sincerely yours,

Vinayak Gadre
Managing Director
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 50,000 Flowmeters supplied by us are operational in over 20 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.
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Products Overview

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) and IoT projects.

Electromagnetic Flowmeters

- MagFlow 6410 In-line Mano 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
- MWM Mechanical Water Meter

Automation Solutions

- Automation & SCADA
Compatibility with Modbus, LAN, GPRS, NB-IoT and LoRaWAN
Rely on us for competency, capacity and customer care

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- **Experience**
  Established in 1983. Experience of nearly 4 decades. Over 60,000 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 Integrated Management System (IMS) as an effective tool to be at par with global standards. Using SAP ERP System.

- **Competence**
  Credited with manufacturing India’s first calibrated Flowmeter of size DN 2700. First in India to develop HDPE Body Flowmeters, and battery & solar-powered Flowmeters.

- **Automation**
  Proven IoT solutions with 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 over 20 countries.

- **Benchmark services**
  Team of expert service technicians supported by advanced software tools to manage operations.
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.
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.
Mechanical Manufacturing

We have a sizeable set-up of about 1100 sq.m. (Plant-1) for manufacturing at our main factory in 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 MIG welding SPM, 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.
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.
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.
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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

- Recognised with SA 8001:2014 for Social Accountability

- Awarded with India Design Mark

Approved by

- APGENCO
- GWSSB
- KMDA
- MIDC
- MSEDCL
- RVUNL
- TSGENCO
- BHEL
- MJP
- NMC
- NTPC
- PDIL
- PMC
- VMC
- MLIP, Odisha
- PHED, West Bengal
- U.P. Jal Nigam
- WRD, Madhya Pradesh
- WRD, Maharashtra
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.

Smartlif

Your next step towards Industry 4.0

Adept has developed IoT Smartlif, which is ideal for the companies using several Flowmeters. Smartlif 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 IoT software 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.

Smartlif is most useful for process plants such as sugar, fertilisers, chemicals, pharmaceuticals, food & beverages, power plants, cooling towers, ETPs, STPs and WTPs.
FlowON – IoT-enabled Smart Metering Service

FlowON is a unique service from Adept wherein we provide 'Smart Metering' as a service for residential complexes.
Adept Flowmeters are exported to more than 20 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 over 20 countries

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