



Flow measurement solutions



 Sewer/Channel Networks Monitoring

 Wastewater Treatment Plants

 Rivers, Channels & Irrigation

 Water Supply & Water Distribution

 Industry & Hydropower

www.flow-tronic.com

Flow measurement solutions

Flow-Tronic develops, manufactures and supplies flow measurement instrumentation for the water & wastewater industry. Our flow experts have been installing and providing flow measurement equipment and solutions for more than 20 years. Flow-Tronic is continuously developing new high-quality products and solutions using the latest technology.

Flow-Tronic provides both portable and stationary flow measuring systems. Our systems are designed for partially filled and full pipes covering a wide range of applications. Flow-Tronic has the perfect solution for any application from clean water to wastewater with harsh measuring conditions.

Flow-Tronic pioneered the introduction of RADAR water velocity measuring technology. RADAR velocity flowmeters give high accuracy together with the best long term reliability. With over 15 years experience in RADAR technology, Flow-Tronic is the best partner for your RADAR applications.

Flow-Tronic flowmeter systems can be connected via GPRS to our 123Flow web enabled platform to monitor all your flow data online.

Flowmeter rental:

Our complete range of flowmeter systems are available for rent. Renting a flowmeter is ideal if you don't want to invest directly, if you need to check the flow for a short period on a site or if you want to test our products and be sure they work on your own measuring site before ordering them. All flow data can be gathered online through our 123Flow platform or via laptop computer using our Windows based software.

Flow measurement services:

Flow-Tronic has a large network of specially trained flow experts and representatives for consultancy, installation & after sales.

Sewer/Channel Networks Monitoring

- Large sewer channels
- Capacity studies
- Combine sewer overflows monitoring (CSO) studies
- Modeling & sewer evaluation studies
- High velocity flows
- Inflow & infiltration studies



Wastewater Treatment Plants

- Discharge
- Flow to treatment
- Flow to works
- Storm discharge
- Process flow control



Rivers, Channels & Irrigation

- Storm water monitoring & compliance
- Irrigation system balancing
- Climate & hydraulic engineering
- Storm water basins calculations
- Permanent measurements of surface water



Always consult our FLOW EXPERTS before making a flowmeter purchase decision.

Fields of applications

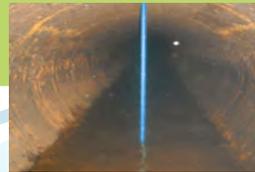
Water Supply & Water Distribution

- Leak detection
- Billing
- Filter balancing & backwash
- Pump stations
- Dosing applications
- Well water
- Large diameter pipework



Industry & Hydropower

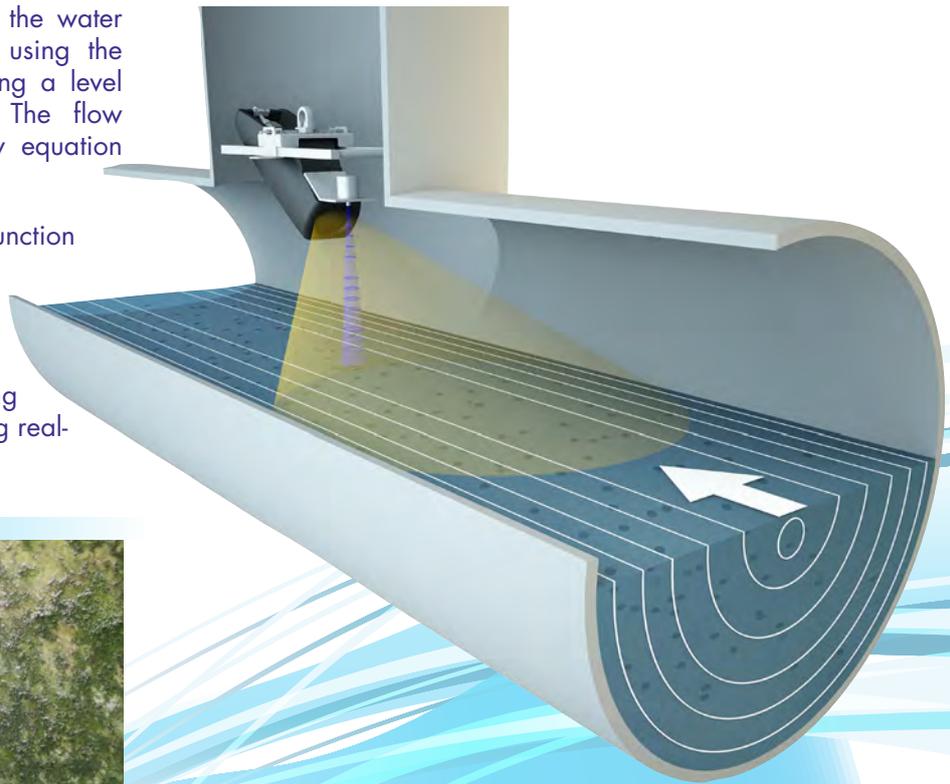
- Plant effluent
- Process wastewater
- High temperature flows
- Flows with high solid content
- Cooling water & circulation systems
- Industrial compliance monitoring
- Caustic & corrosive flows



RADAR flow measuring technology

The radar flow sensor is mounted above the water surface and measures the flow velocity using the radar technology and the flow depth using a level sensor (ultrasonic, radar or pressure). The flow rate is calculated applying the continuity equation $Q = \bar{v} \times A$.

The non-contact radar velocity sensor will function even when obscured by plastic and wood. During each measurement cycle, it makes thousands of velocity measurements which are processed into an extremely accurate average velocity measurement reading using a dedicated digital signal processor making real-time spectral analysis.



Non-contact RADAR flow measuring system

The radar sensor is positioned above the flow, thereby avoiding all problems associated with traditional flowmeters when the sensor is immersed in the fluid.

Advantages of the radar flowmeter include:

- Personnel have no contact with the flow
- Easy installation
- Maintenance caused by immersed sensors is eliminated
- No site calibration required

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