

FlowLab Technologies

Specialised Instruments for Fluid Flow Measurement

FlowLab designs and manufactures a complete range of instruments for fluid flow measurement. Boontec Smart Services has a long history of collaboration with FlowLab in the introduction of FlowLab products to customers including Veolia, Suez and diverse markets including India and Madagascar.

Working across all types of water from raw water to irrigation projects, potable water and wastewater, FlowLab Technologies are proven instruments with a strong pedigree from installations in France and in remote area applications in India and Madagascar.

UVS Trenchless & Boontec Smart Services

UVS Trenchless works closely with Boontec Smart Services, who have worked with FlowLab flowmeters in many projects worldwide. Water networks in Australia are characterised by very long pipelines and installations over large areas. The impact of drought conditions make water an even more precious and sometimes rare resource in regional areas and in some cities. To increase the efficiency of a water network it is important to have information about flow rates from the catchment to the end user throughout the bulk and reticulation network. This information can be used by network managers to understand issues in the system and prioritise scarce resources for inspection and repair work.

Experience from projects worldwide is that as network management becomes more sophisticated when increased monitoring and measurement of the water network are implemented. UVS and Boontec work closely together to transfer knowledge and technical know-how regarding flow measurement installations, set-to-work and management. UVS Trenchless has established support for FlowLab products in Australia so that customers can be certain of local service and back-up of all products.

Measurement Technologies

FlowLab provides instruments with two measurement technologies: electromagnetic and ultrasonic (transit time). These technologies enable measurement in almost every type of conductive and non-conductive fluid, even high turbidity raw and wastewater flows.

Electromagnetic Flowmeters

Electromagnetic Flowmeters can be provided for pressured pipes with all types of conductive fluids including raw, treated and wastewater. Insertion flowmeters for permanent or temporary installation are fast and easy to install using tapped connectors, saddles and stop valves. In Australia installation and set-to-work can be supported by UVS Trenchless technicians.

Temporary installations are ideal for study and analysis of water network flows to supplement existing permanent flow metering.

The complete flowmeter system includes a data logger for on-site recording of all flow measurements. Standard analog and digital outputs can be configured for connection to telemetry and transmission from remote sites back to office locations. UVS Trenchless can support the design of these telemetry networks and has completed similar projects for many other customers.

The design of the FlowLab insertion flowmeter is very rugged and it has proven itself in many applications to be ideal for remote areas and installation in harsh conditions such as can be encountered in many Australian regional areas.

FlowLab can also provide full bore flowmeters for permanent installation and these designs provide improved accuracy compared with insertion flowmeters. Installation of full bore flowmeters requires interruption of the flow to install the flow meter directly into the pipeline.

Ultrasonic Flowmeters

The principal of transit time ultrasonic flow measurement is that the time of arrival of a sound signal through water is altered by the flow rate of the water itself. Ultrasonic flow meters require the installation of two sensors, however, the flow measurements obtained using this technique provide increased accuracy compared with insertion electromagnetic techniques. Ultrasonic flow measurement can provide the same level of accuracy as full bore electromagnetic meters when correctly installed.

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Ultrasonic flowmeters can be used for all types of fluids (including non-conductive fluids) and are typically specified for raw water and treated water applications.

For open channels applications ultrasonic sensors can be combined with level measurement to measure the channel depth and provide complete information on the flow in the channel.

FlowLab ultrasonic sensors have the same rugged and durable design as the electromagnetic sensor range and are a proven choice for remote area applications.

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