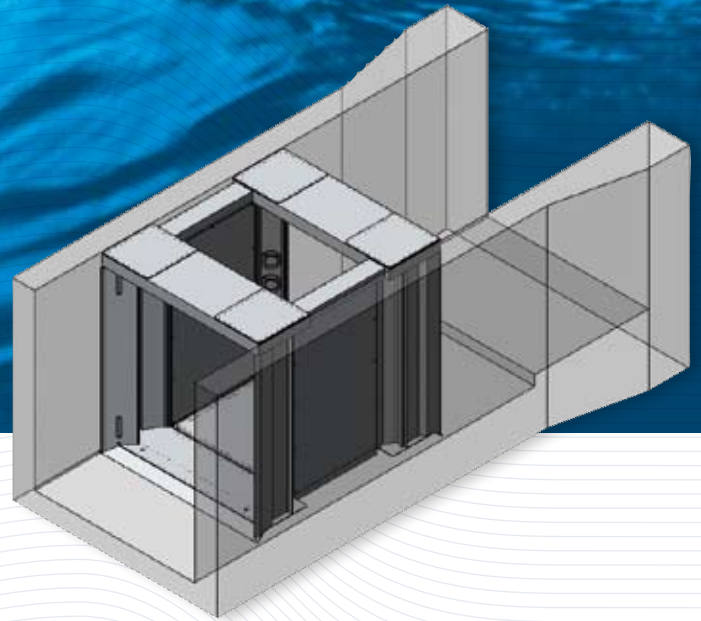


Sonaray™ Flume Meters

High performance flow measurement in open channels



Rubicon's range of Sonaray™ flume meters suit a diverse range of applications – including high accuracy solutions for measuring open channel flows in urban water and irrigation environments.

Sonaray™ flume meters have taken standard transit time ultrasonic flume measurement to a new level with ultra high-speed acoustic signal processing technology enabling highly accurate measurement of both very low flows and high flows in one meter. Several patent applications apply to this unique technology.

Rubicon manufactures a range of Sonaray™ flume meters that can be inserted into standard rectangular flume structures or box culverts for continuous monitoring of open channel flows.

High flow, low head loss

Sonaray™ flume meters are ideal for open channel irrigation applications, providing accurate measurement of high flows with low head loss while also maintaining accuracy at low flows.

Cross path sensing

Sonaray's™ cross-path sensing minimises requirements to condition the flow through the meter – reducing the need for civil works and making it a versatile, cost effective solution in a wide variety of situations.

Comprehensive self-diagnostics

Sonaray™ flume meters continually verify correct operation through their sophisticated diagnostics and self-testing.

The precision timing circuitry continually self-calibrates against a quartz timing standard to guarantee error free sub-nanosecond measurement accuracy

Key features:

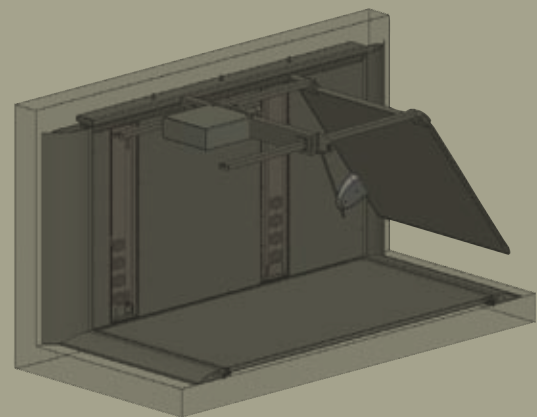
- Low head loss characteristics suited to gravity supply systems
- Wide flow measuring range from very low to high flows in one meter
- High accuracy metering for revenue collection applications
- Easy installation into existing flume and box culvert structures
- Retractable cartridge sensors for easy in-field servicing
- Reliable, low maintenance operation
- An affordable industry solution.

Integrated Control Gate Option

The Sonaray™ flume meter can be specified with an integrated control gate – Rubicon's ValveGate™. The ValveGate™ is a new concept in flow measurement and control – with its integrated undershot gate configuration fully contained within the flume meter structure.

There are no protrusions outside of the rectangular flume structure, allowing the ValveGate™ to be covered, as with box culvert applications.

Additionally, the ValveGate™ maintains repeatable flow streamlines – improving flow measurement ranges and avoiding the limitations associated with hydraulic entry and exit conditions.



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