RISONIC clamp-on

Non-intrusive Ultrasonic Transit Time Flow Measurement



Non-intrusive flow measurement for Water Supply, Hydro Power and Process Control Permanent installations and mobile inspections

Magnetic frame for easy transducer mounting and positioning

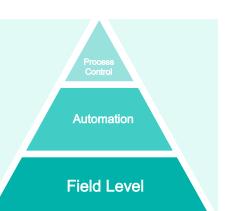


RISONIC clamp-on



FEATURES AND BENEFITS

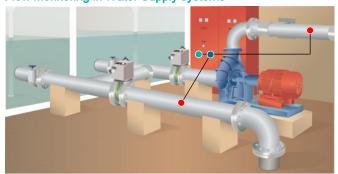
- Non-intrusive flow measurement (no drilling, no interruption of operation)
- Magnetic frame eliminates mounting straps and also works on partly exposed pipes
- Durable and long-term solution, option for adhesive mounting of magnetic frame
- Measuring accuracy of up to 1.5% of measured flow
- Flow measurement in both directions (pumped-storage power plant)
- Advanced mathematical calculations (total flow, average of delta flow, etc.)
- Web server for easy configuration and remote diagnosis
- IEC 60870-5-104 and Modbus RTU/TCP communication
- Mobile metering with possibility for battery-powered operation





RISONIC clamp-on Application Examples

Flow monitoring in Water Supply systems





Ultrasonic Transit Time Flow Measurement 500 kHz, IP65 Clamp-on transducer Water flow (max) ± 20 m/s 1.5% of measured flow Accuracy (up to) Pipe diameter Pipe wall thickness 8 ... 60 mm Pipe material metals, FRP, etc. Measuring paths 1 or 2 paths per section Measuring sections max. 4 per Controller

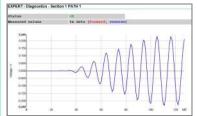
Path Arrangements and Pipe Diameters 1 path 2 0.9 m ... 3.0 m 2 paths (crossed Z) V 0.5 m ... 1.0 m W 0.3 m ... 0.6 m

Innovative magnetic frame mounting concept



- Ideal for temporary metering
- Easy transducer positioning
- Magnetic holding of the sensor core piece (oscillator insert)
- Permanent mounting option
- May leave only frame at site for recurring flow inspections

Easy commissioning and signal monitoring



- Built-in signal-graph allows for immediate checking of measurement set-up
- Remotely monitor measuring section and signal quality

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Subject to change

