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Ultrasonic Flow Meter For Open Channels







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Sonex open channel flow measurement works based on the level measurement of fluid over a section of channel which is designed according to standards. This section of channel is so called Parshall Flume. The Parshall Flume is an economical and accurate way of measuring water flow in open channels and non-full pipes. Originally the flume was developed to measure surface waters, water rights apportionment, and irrigation flows. However, its use has expanded to include measuring sewage flow (both in pipe and treatment plants), industrial discharges, dam seepage, and other applications. the Parshall Flume is the most commonly used and widely recognized flow measurement flume.

Ultrasonic Flow Measurement For Open Channels provides continuous, contact—free and maintenance-free flow measurement of fluids, pastes and sludges.

In the SONEX ultrasonic flow meter for open channels, the transducer is separate from the electronic circuitry. This type of level meter is used for measuring the open channel level and flow rate continuously.

The SONEX ultrasonic flow meter for open channels is resistant to water and

dust.



Applications

- Storage tanks
- Open Channels
- Corrosive liquids

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Technical Data	
Measuring principle	Ultrasonic Level Measurement & Parshall Flume Relations
Measurement distance in open channels	0.3 to 15 meter
Frequency	20 to 100 KHz
Accuracy (for liquid level measurement)	0.5% full range or 5 mm
Accuracy (for liquid flow rate measurement)	According to ISO9826 (Parshall and SANIIRI flumes)
Repeatability	0.2% full range or 2 mm
Supply Voltage	21 to 30 VDC
Output	RS485 / Modbus / 4-20 mA / LCD Display
LCD Display output	Flowrate, Total volume, Fluid level
Liquid Temperature Range	-10°C to 70°C
Ambient Temperature Range	-10°C to 60°C
Temperature Compensation	with temperature sensor in transducer
Transducer Protection Class	IP 67
Electronic Box Protection Class	IP 65
Installation	Electronic: inside box (wall mounted) Transducer: over the flume
Weight	<4 kg
Dimension (mm)	Electronic box: 350 x 250 x 150 Transducer: 75 (diameter) x 130 (height)
Channel Size Range	No limitation (According to standard)
Flow Velocity Range	No limitation (According to standard)
Fluid material	No limitation (According to standard)

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