



Non-intrusive Ultrasonic Flow Meter



Oil & Gas | Chemical | Water & Wastewater | Energy Efficiency

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The clamp-on flow meter is a revolutionary method of flow measurement which is made possible by ultrasonic technology. **Sonex** ultrasonic flow meters have a unique design and processing system which makes them applicable for steel, cast iron, polyethylene, and PVC pipes independent of stream flow composition, temperature, and pressure. Using a non-intrusive flow meter prevents any pressure losses, line clogging, and leakage risk in the process.

Sonex ultrasonic flowmeters are available in both **Portable** and **Stationary** types. **Portable** type is used when the user does not need flow measurement continuously. The **Stationary** type can be used for continuous flow measurement. **Stationary** type is resistant to water and dust.

Transducers of ultrasonic flowmeters are the same in both **Portable** and **Stationary** types.



Stationary Type



portable Type

Applications

- Food industry
- Petrochemical industry
- Oil and gas industry
- Pharmaceutical industry
- Semiconductor industry
- Manufacturing industries
- Water and wastewater industry
- Mining industries

One year warranty and 10 years after-sales services

Technical Facts

Type	Single phase liquid
Measurement Uncertainty	2%
Power Supply (Stationary)	110-220V AC/24V DC
Power Supply (Portable)	1 Cell Li-polymer Battery (10 Hours)
Output	4-20 mA/RS485
Ambient Temperature	-15°C to 60°C
Transducer Frequency	0.5-2 MHz
Pipe Size Range	2-20 inches
Flow Velocity Range	0.5 – 10 (m.s ⁻¹)
Temperature Range (Pipe Wall):	-20°C to 80°C

- Dynamic flow rate and total volume measurement regardless of flow direction.
- Independent of pipe material, wall thickness, and internal pressure and temperature.
- No process shut-down or interruption of production
- Fast measuring
- High operational safety with no leak risk
- High accuracy using the ultrasonic transit-time method
- Chargeable Battery for 10 Hours of continuous operation
- Able to save settings in the internal memory
- User-friendly design

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