Non-intrusive ultrasonic flow measurement to maximize reliability and safety

Emerson's Flexim non-intrusive ultrasonic flow measurement technologies are designed for a wide variety of complex industrial processes. The products are designed for advanced process measurement to optimize plant safety, efficiency and system monitoring.

The FLUXUS® meters set the industry standard for non-intrusive flow measurement with proven results in a broad range of industries, including HVAC/District Energy, Chemical, Water/Wastewater, Power and more.

Why choose a Flexim non-intrusive flow meter?

- When installing a Flexim meter, there is no need to stop the process flow. Should an existing flow measurement point stop working, Flexim's meter can function as a viable replacement and prevent a process shutdown for maintenance/repairs
- A Flexim flow meter provides a low cost leak detection solution. By placing redundant meters throughout a pipeline, users can easily monitor the process for leaks and quickly take mitigating actions if needed
- With low variability in cost, metering for large line sizes is cost-effective and provides more accurate, repeatable, and reliable measurement
- Flexim meters are non-wetted, which makes them ideal for corrosive and erosive applications

KEY FEATURES

1. **Zero Maintenance –** No gels or greases used
2. **Factory Calibrated –** Transmitters and transducers calibrated under ISO 17025
3. **Operational Safety –** No risk for leaks and no shutdown process
4. **Flexible Technology –** All portable and permanent options available
5. **Shear & Lamb Wave –** Liquids, gas and heavily aerated or sedimented liquids
6. **Temperature Compensation –** Transducers meet the ASME MFC-5M- 1985 standard
7. **High Performance –** Sophisticated meter diagnostics, advanced processing & no drift

EMERSON™

Gas Applications

Oil & Gas production, transportation, and storage operations must adhere to strict standards of performance and efficiency.

Flexim's ultrasonic gas flowmeters can safely measure extreme low flows and have no drift in measurement.

Applications Examples:

- Flow measurement of gaseous ammonia in refrigeration plants and process gases
- High-pressure ethylene and hydrogen chloride gas in the chemical industry

Liquid Applications

One of the water industry's major focuses is to reduce water loss.

Flexim's accurate and reliable ultrasonic liquid flow meters are an ideal solution for its ease of installation and can detect very low flow velocities.

Applications Examples:

- Monitoring flow in prestressed concrete cylinder pipes
- Flow measurement of drinking water leading to the network
- Non-intrusive flow measurement at sewage pumping stations

Steam Meter Applications

In many industries, steam is a valuable medium for transporting thermal energy.

Flexim's newest low and high temperature steam meters are an ideal solution because of its extremely high measuring dynamics and no pressure loss.

Applications Examples:

- Steam flow measurements for billing, process monitoring, or control

Density and Mass Meter Applications

The Oil & Gas and chemical operational conditions within their sites are very demanding and challenging.

Flexim's density and mass measurement products are an excellent solution due to its highly accurate optical process technology, maintenance free, and no shutdown process for installation.

Applications Examples:

- Base and intermediate chemicals
- Polymer production
- Wellhead monitoring

For more information, visit **www.flexim.com,** or contact your local Emerson Salesperson.

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