



## Application Spotlight

Improve Profitability and Safety in Your Loading and Unloading Operation



Accurate accountability of product quantity and quality is critical to your mass balance calculations.

### CHALLENGE

The loading and unloading process is one of the highest risk operations in your chemical plant. As much as 80% of transport related incidents occur here.

Poor measurement accuracy can hinder financial reporting and billing operations while relying on weigh scales reduces throughput. These lead to capacity constraints and bottlenecks directly impacting profitability.

Excess emissions and overfills can carry significant consequences to workers, the public, the company reputation as well as costs related to fines and clean up of spills.

### OUR SOLUTION

Utilize Emerson solutions in your loading and unloading operation to obtain accurate and repeatable measurement that complies with industry standards and is a critical input to your accounting operations.

- **Coriolis Flow** – Accurate custody transfer measurement
- **Radar Level** – Prevent tank overfills and monitor inventory
- **Wireless Level Detector** – Prevent tank, truck and rail car overfill and protect pumps
- **Flame and Gas** – Protect workers from hazardous and flammable vapors
- **Pressure and Temperature Monitoring** – Improve transfer accuracy and increase safety
- **Batch Controller** – Control loading and unloading processes
- **Product Transfer Loading System** – Provides complete, scalable, productized loading and unloading system

Emerson has the portfolio breadth and industry experience to help you leverage automation technologies and services to achieve top operational performance.

Micro Motion Coriolis Mass Flow Meter



Rosemount™ 5408 Level Transmitter – Non-Contacting Radar and 2160 Wireless Level Detector - Vibrating Fork



Rosemount 928 Wireless Gas Monitor and Rosemount 935 & 936 Open Path Gas Detectors



Rosemount 3144P Temperature Transmitter



Rosemount 3051S Series Pressure Transmitter



Emerson Product Transfer Loading System Solution



Micro Motion 3700 Controller And Transmitter and 5700 Field-Mount Transmitter



To learn more, watch our [Reduce Risk and Transfer Errors in Chemical Plant Loading and Unloading Applications Webinar](#), or contact your local sales representative.





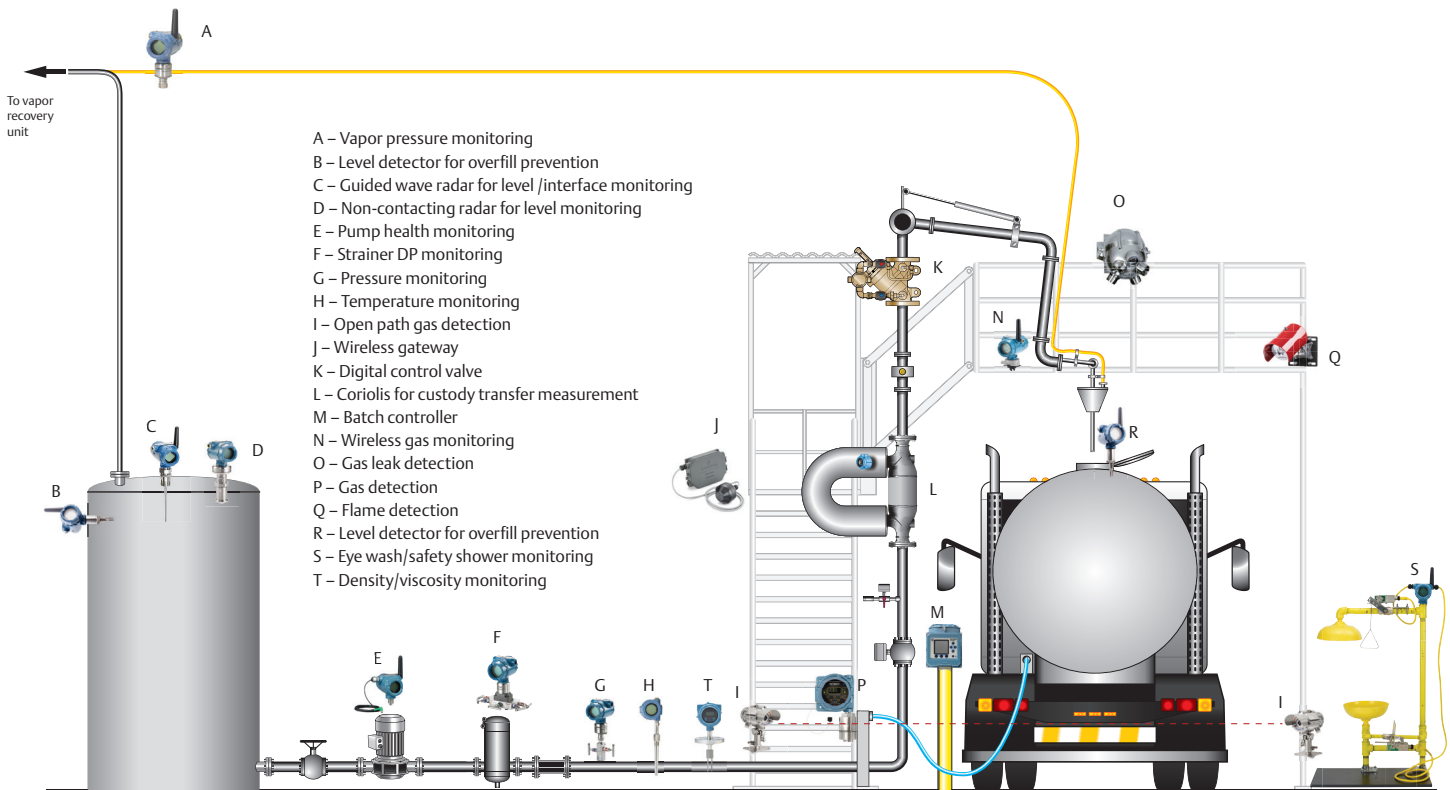
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### THE VALUE OF EMERSON'S COMPREHENSIVE SOLUTIONS

Emerson can help you improve the efficiency of your loading and unloading operations with more accurate and repeatable measurement solutions. Here are a few ways we can help you **improve profitability and safety**.

- **Accurate and repeatable product transfers** – Micro Motion Coriolis mass flow meter with two-phase flow capability reduces losses and billing disputes. Real-time density and viscosity measurement eliminates manual sampling and ensures product quality.
- **Ensuring safety and eliminating emissions** – Rosemount level, temperature and pressure measurement technologies along with advanced flame and gas detection ensures the safety of your plant and people by preventing spills, fires and exposure to hazardous vapors.
- **Maximizing throughput and capacity** – Micro Motion direct mass measurement eliminates bottlenecks associated with weigh scales to maximize throughput.



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## Consider it Solved.

Emerson supports you with innovative technologies and expertise to address your toughest challenges.

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