Product Loading Systems
Modular solutions for safe and efficient loading operations

Reduce uncertainty, increase throughput and improve HSSE performance
A total product loading system enables best-in-class measurement accuracy, personnel safety, and product flexibility designed in a modular solution to provide quick and secure shipment with ease of implementation.

Optimized and modularized solution
Emerson’s Product Loading Systems are the total solution to terminal loading. Emerson integrated metering systems are proven to meet the most stringent requirements. Integrated and fully tested metering systems increase measurement accuracy and reliability with the premiere Emerson Flow Solutions product line. Modular systems configured for your requirements allow for an optimized terminal layout, increasing the throughput of transportation units. Configure the solutions with metering and loading equipment per your requirements for multiple product types.

Minimize safety risks and ensure lifecycle sustainability
• Sustained fiscal measurement performance and repeatability ensure accurate batch loading with automated loading operations and safety interlocks to mitigate overspills and incorrect batching.
• Single point of responsibility for the entire system, reduced complexity, and local service and support presence.

Applications
• Gasoline, diesel, kerosene, jet A1, ship fuel, etc.
• Optional ethanol, biofuel blending and additives
• Liquefied petroleum gases (LPG), butane, propane, liquid ammonia, etc.
• Vapor return with measurement optional

"Stringent fuel regulations have multiplied the number of refined products, as well as terminals’ fiscal reporting calculations and HSSE obligations. Major pipelines currently move 100 - 120 distinct products, compared with 10 - 20 in the 1960s."

- Industrial Flow Measurement, 2009

What if you could...
Accurately account for product quantity with a fully integrated solution
• Accurate and sustainable flow measurement over time with the most accurate and reliable metering equipment available

Increase throughput while accommodating multiple product types and grades
• A modular design approach optimizes terminal bay layout, increasing the throughput of transportation units
• Configure the solutions with metering and loading equipment per your requirements for multiple product types

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Instrumentation
• Rosemount Pressure and Temperature Transmitters
  Accurate and reliable measurement of batching process and operating conditions

Proving (Optional)
• Daniel Compact Prover
  High accuracy, rapid operation and uninterrupted flow for proving a flow meter during operation

Flow Meter
• Micro Motion ELITE Coriolis Flow Meter CMF
  • Proven ELITE performance on liquid mass flow or volume flow measurements
  • ISO/IEC 17025 certified calibration facilities offer world-class uncertainty range

Safety
• Emergency Shut Down (Optional) and Safety Interlocks
  ESD Valve immediately stops flow when signaled due to overspill or from terminal alarm system

Strainer System (Optional)
• Strainer with Air Eliminator
  Strainer system eliminates foreign particles and increases system component integrity