

Emerson Fiscal Metering Systems

Complete Natural Gas Measurement Solutions



Eliminate cost and reduce complexity



The Emerson Gas Ultrasonic Metering System delivers a complete energy measurement and custody transfer measurement package

All too often a business advisor is called in at the end of the project life cycle to conduct a post-mortem rather than at the beginning, during concept development and pre-planning

What if you could...

Achieve the best possible accuracy and assure regulatory compliance

- Accurate and sustainable flow measurement over time for gas quantity and quality
- Delivers the best performance solutions expertly designed to meet local regulations

Optimize system performance and control cost in challenging environment

- Compact system size reduces engineering, fabrication and installation cost while enabling shipment in standard size containers
- Unique scope as original equipment manufacturer for all major components

Reduce Project Risks and ensure lifecycle sustainability

- Single point of responsibility for the entire system and reduced vendor complexity
- Reliable control system and lifecycle management
- Strong local presence for Life Cycle support

Because there are many variables in a metering system, it is the meter system - including all the piping and components that affect the meter performance

Complete natural gas measurement solution

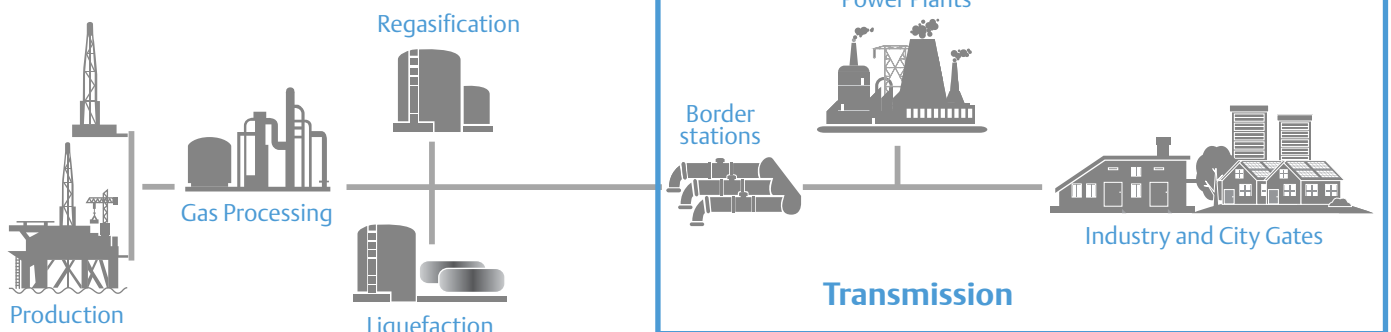
Complete and cost-effective energy measurement solution for natural gas custody transfers that ensures optimized performance for the entire lifecycle of the system

- Solution components are seamlessly integrated to maximize measurement accuracy and minimize risk
- Industry experience and expertise to provide consultation on optimizing the application operation and control
- Single point responsibility for complete design, execution, start-up and after sales support
- Service capabilities reach any location in the world, and we're expanding to provide even more rapid and cost effective solutions

Applications

Custody Transfer for natural gas transmission pipelines

- Branches off the main pipeline
- Large industry and city gates
- Power plants



Performance requirements have become more stringent - with unrelenting pressure for improved reliability, accuracy, linearity, repeatability and rangeability."

- Industrial Flow Measurement, 2009

Emerson's standardized solutions increase the overall reliability of allocation and custody transfer points throughout your operation. By applying best practices with expert application knowledge, Emerson can help you reduce risk and improve operational performance with best-in-class technologies and services.



Flow Meter

Rosemount 3414 Ultrasonic Meter

- High accuracy and reliability
- Low maintenance and pressure loss



Rosemount 3417 Ultrasonic Meter

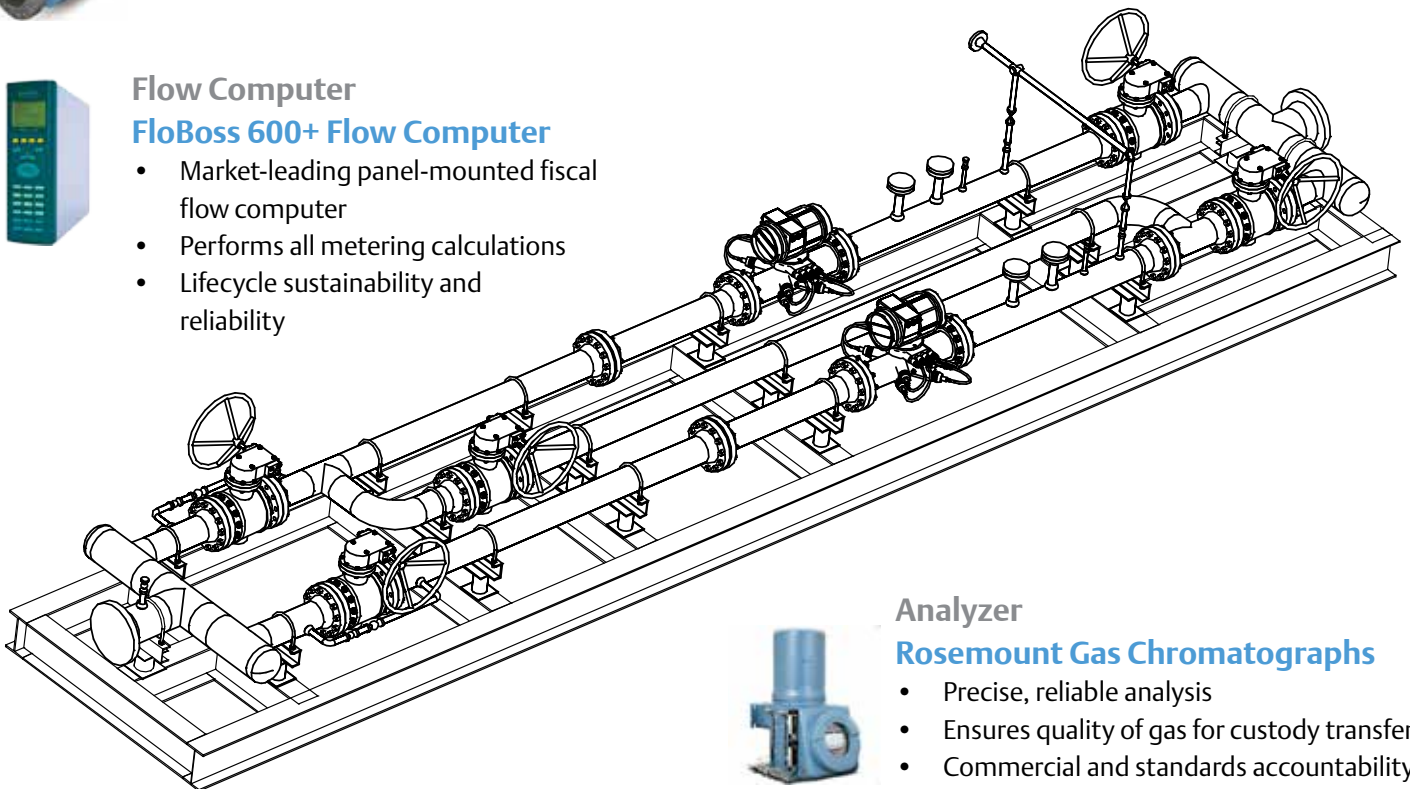
- Dual electronics



Flow Computer

FloBoss 600+ Flow Computer

- Market-leading panel-mounted fiscal flow computer
- Performs all metering calculations
- Lifecycle sustainability and reliability



Verification

Crossover or Dual Electronics

Verification crossover line to compare performance of one GUSM to the second GUSM or verify with the dual electronics using Model 3417 for integrated check metering

Analyzer

Rosemount Gas Chromatographs

- Precise, reliable analysis
- Ensures quality of gas for custody transfer
- Commercial and standards accountability



Analyzer Housing

Canopy, 3-sided or HVAC

Multiple shelter configurations depending on your needs to protect your field technicians and equipment including a canopy, 3-sided, or HVAC designs



Instrumentation

Rosemount Pressure and Temperature Transmitters

Accurate and reliable measurement of operating conditions

“A very large custody transfer system can meter \$2.2 billion of natural gas per year. If the measurement is off by 0.25%, that’s an error of \$5.5 million per year in somebody’s favor”

- Control Engineering, 2010



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