Oil & Gas Flow Solutions for Fiscal Measurement

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Oil and gas fiscal measurement accuracy for allocation and custody transfer depends on many factors including measurement technology, fluid quality, rate of production, operating conditions, and process complexity. None of these challenges, however, reduce the burden to ensure the accurate measurement of these royalty-bearing volumes of oil and gas. A correct fiscal measurement system not only supports compliance, but helps maximize overall fluid production and movement efficiency.

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

Industrial Flow Measurement

Different flow technologies are used for all applications, but custody transfer is one of the most important applications.

Flow Control, May 2013
What if you could...

Achieve best-possible measurement system accuracy and reliability to assure commercial and regulatory compliance

- Realize accurate flow measurement and sustained meter performance with the right technology for the application
- Effective and efficient performance validation

Optimize system performance and control cost in challenging conditions

- Improved information and operations insight
- Early identification of measurement uncertainty
- System designed using optimal technology and operations best practices

Ensure your system was highly efficient over the course of its life and reduce ownership costs

- Data and information management
- Lifecycle services optimize device performance in your application

Partners, authorities and customers all calculate invoices, taxes and payments based on the actual product shipped.
Emerson Solutions for Every Challenge

Fiscal measurement, both allocation and custody transfer, is everywhere in the Oil & Gas field. From production to transportation, processing to terminals and storage, Emerson understands the challenges and can help you overcome these with complete solutions for every application.

Flow & Density Meters
- Right technology for the application
- Higher accuracy for regulatory compliance
- Diminished fiscal risk

Proving/Calibration
- Ongoing meter accuracy and repeatability
- Reduced operational cost
- Cost-effective solutions

Fluid Composition
- Accurately quantify and manage product quality
- Ensure equipment integrity with detection of contaminants
- Range of suitable equipment options

Pressure Control
- Ensure precise pressure control and sustained meter performance
- Improved HSE performance and emergency flow shutdown
- Increased system capacity and service integrity

Data Management
- Reduced operational and ownership costs
- Metrology service
- Lifecycle management

Turnkey Solutions
- Systems optimized for the application and user
- Regulatory compliance
- Reduced complexity and risk by partnering with a single supplier

Instrumentation
- Better insight into system integrity and operating conditions
- Reduced maintenance
- Easier troubleshooting

Production
- Real-time well data to optimize production and ensure accurate measurement of hydrocarbons
- Accurate and reliable fiscal measurement ensures regulatory compliance and royalties calculation
- Adequate over-pressure protection improves HSE performance
**Pipelines Transportation**

- Accurate flow measurement and improved operating parameters ensure efficient product movement, control and monitoring
- Improved batch and loss/gain control maximize pipeline capacity and utilization
- Reliable leak detection systems ensure pipeline integrity
- Odorizing systems and pressure control improve HSE performance

**Terminals & Storage**

- High capacity flowmeters increase loading/unloading efficiency and speed
- Robust equipment and diagnostic data reduce maintenance and avoid shutdown
- Precise over-pressure protection improves HSE performance
Flow Solutions for Oil & Gas

Emerson offers standardized solutions, based on the most reliable and precise technologies, to maximize your Oil & Gas production. By applying best practices, expert application knowledge, and world-leading technology, Emerson can help optimize your overall operating performance.

Process Diagnostics & Optimization
Quality assurance constraints make it difficult to fully utilize available measurement technology - yet you have to get beyond ‘it works and is good enough’ to effectively manage facilities. Emerson’s innovative technology, industry experience, and breadth of measurement and control solutions enable a more systematic approach to utilizing field-proven technology in a cost effective manner to improve process unit operations and reliability.

Integrated Application Systems
You are challenged with increasing costs, tightening project schedules, and integrating technology from multiple vendors. The complexity of automation integration, combined with managing different service providers, put projects at risk. Emerson’s integrated application systems capabilities offer standardization and integration of systems and work practices that will improve capital efficiency, lower project risk, and meet challenging deadlines.

Data & Information Management
The variety and availability of facility operations data is dramatically increasing in quantity and complexity, yet finding the expertise to filter and interpret data in a timely manner is a challenge. Emerson’s remote automation architecture and capability to transfer information from the field to the office provides you with the structure needed to readily access critical information regarding field equipment health, process unit diagnostics, optimization opportunities and resource utilization.

Lifecycle Management
The continual loss of experienced people, combined with utilizing newer technologies in your operation, create gaps in effectively implementing a complete asset management program. The business and HSE risks associated with asset assurance and sustainability is growing. Emerson’s global presence provides local support and collaborative engineering services to augment your going asset management activities.
From precision measurement to asset management, Emerson's Flow Solutions reduce risk, increase reliability, and improve operational performance with best-in-class technologies and services.
Oil and Gas companies worldwide are choosing Emerson for proven Flow solutions, instrumentation, and support. Whether allocation or custody transfer, Emerson can provide the best technology and expertise to reduce your fiscal risk and optimize your process. Driving down ownership and maintenance costs, while optimizing your measurement system and all its components, is how Emerson helps you succeed in complex operating environments.

Daniel Measurement & Control
Micro Motion
Remote Automation Solutions
Regulator Technologies
Rosemount
Roxar
Valve Automation
Flow Lifecycle Care Services

For more information, please contact your sales representative. For a complete list of contact information and websites, please visit: www.emersonprocess.com/home/contacts/global

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