Reduce measurement uncertainty with smart flow control.

Emerson’s Metering Suite
Ensure accurate measurement and control of oil and gas custody transfer and fiscal flow metering installations.
Emerson’s Metering Suite

Emerson’s Metering Suite provides accurate measurement and control of oil and gas custody transfer and fiscal flow metering installations.

Built around Emerson’s measurement technologies, the Metering Suite provides users with multiple meter measurement capability, built-in redundancy and easy integration with DeltaV™ ICSS systems.

The Metering Suite’s software coupled with a high-speed workstation allows reliable monitoring and control of all key metering parameters, proving and sampling—all from one location.

Engineers and system operators can track meter stream temperature, pressure, flow meter factors and repeatability in addition to viewing prove sequences and batching flow charts. Measurement reports and online calculations can also be easily accessed for timely detection of measurement variability.

Emerson’s Metering Suite is available in three options:

- **HMI Edition:** This option is powered by a standalone HMI and is ideal for smaller systems with lower complexity that can operate without the need for a physical controller.

- **Standard Edition:** This option is powered by the DeltaV PK Controller and is ideal for medium complexity systems or projects with a need for a more powerful physical controller for complex logic or valve control.

- **Advanced Edition:** This option is powered by the DeltaV PK Controller and is ideal for the most complex of metering systems with advanced logic, networking or third party systems integration requirements.
Guardian Support

Guardian Support is the base element for Emerson’s service program. Guardian Support is a service designed to optimize the availability, sustainability and performance of your system.

Guardian Support aggregates and securely delivers real-time service intelligence tailored specifically to your system architecture, assets and use. Additionally, Guardian provides support elements including remote system diagnostics and expert technical support to help you effectively manage your system throughout its lifecycle. The result is a single point of critical system information that gives you visibility on the status of your metering assets.

Guardian Support benefits you with:

• Better decision making
• Improved staff productivity
• Lower operations and maintenance costs
• Better operating performance

Standard and Advanced Editions

Emerson’s Metering Suite is scalable and can be configured to meet your particular needs. All of the Metering Suite Standard and Advanced Systems include the following foundation building blocks:

• HMI operator workstation(s)
• Pro Plus engineering station
• DeltaV PK Controller with hardwired I/O as required
• FloBoss™ S600+ flow computer(s)
• DeltaV software
• Reports and application-specific software

HMI Edition

This option is powered by a standalone HMI and is ideal for smaller systems with lower complexity and that can operate without the need for a physical controller.

All HMI Edition systems include the following building blocks:

• HMI operator workstation(s)
• HMI engineering workstations
• FloBoss™ S600+ flow computer(s)
• Reports and application specific software

Reliable Measurement

Emerson’s Metering Suite provides reliable measurement utilizing a robust, redundant communications architecture with process alarms to minimize lost and unaccounted for hydrocarbons.

Other benefits include:

• Identification of temperature, pressure and flow trends to quickly pinpoint operational anomalies
• Integration of prover sequence flow chart with prover control screens
• Comparison of different meter streams based on temperature, pressure, flow meter factors and repeatability
• Graphical display of metering process provides metrology information in an easy-to-use format
• Process alarms alert operators to possible issues in real-time

• Characteristic data for each flow meter can be entered in the system database ensuring individualized high-precision metering
• Quality analysis device data (e.g. from analytical instruments) can be entered for correction of product delivery information when required
• Important data such as delivery tickets, proving reports and summary reports are archived for future reference
• Standard or optional user-customized reports can be presented to authorities/customers in both printed and electronic format
• Emerson’s Metering Supervisory Systems software can communicate with ICSS/DCS hosts/SCADA to provide metering information on multiple levels (e.g. in refineries or LNG terminals)
• Supports multiple meters, provers and analytical devices

Plantweb™ Connectivity

Emerson’s Metering Suite is Plantweb enabled to allow easy connectivity with new applications. Plantweb Advisor for Metrology is Emerson’s new modular analytics and diagnostics platform. Built upon the latest technologies, it provides a suite of functions and flexibility that are unprecedented within the measurement world today.

The Plantweb Advisor for Metrology application offers enhanced diagnostic, remote monitoring, predictive capabilities and validation. In addition, it provides greater insight into both process and instrumentation, driving clarity and reducing financial exposure/risk.
Scalable metering solutions to meet your needs

Emerson’s Metering Suite Options

- **Advanced Edition**
  - Powered by the DeltaV PK Controller
  - Ideal for the most complex of metering systems
  - When advanced logic, networking or third party systems integration are required

- **Standard Edition**
  - Powered by the DeltaV PK Controller
  - Ideal for medium complexity systems or projects
  - When a more powerful physical controller is required for complex logic or valve control

- **HMI Edition**
  - Powered by a standalone HMI
  - Ideal for smaller and lower complexity systems
  - When there is no need for a physical controller

Reliably monitor and control your metering systems with Emerson’s Metering Suite.