

# MASS BALANCE & PRODUCTION ACCOUNTING SOLUTIONS BY EMERSON & PIMSOFT

End to end solutions to improve performance and loss control

Emerson's measurement technologies and mass balance and loss control consulting expertise combined with Pimsoft's Sigmafine software platform provide a comprehensive solution that helps customers validate and reconcile field measurements for custody transfer, plantwide and unit material balances, yield accounting, and loss control activities. Having reliable and quality data-sets for these activities can significantly improve operations, prevent theft, reduce losses and mitigate financial risk. Better data quality is also a critical enabler for maximizing the effectiveness and ROI of digital transformation and optimization projects.



Emerson and Pimsoft bring together the most advanced metering technologies, industry leading software solutions for data conditioning in the process industries and years of know-how and engineering capabilities in the implementation of turnkey solutions for custody transfer systems and data validation and reconciliation applicable to material and energy balances.

## Applicable to all process industries

Optimizing accuracy, reliability, and usability of field measurements in any process industry

- Oil & Gas production
- Refining
- Gas Processing
- Petrochemicals
- Chemicals
- Fertilizers
- Metals & Mining
- Food & Beverage
- Terminals & Bunkering
- Pipelines
- Power Generation
- Water & Utilities

### Pimsoft's Sigmafine Software



Software solution based on the OSIsoft PI System designed to improve the quality and usability of data.

### Emerson's Measurement Solutions



Emerson's breadth of solutions range from flow and level measurement technologies to automatic tank gauging systems and custody transfer metering systems

### Emerson's Engineered Custody Transfer Systems



Emerson can deliver end-to-end liquid and gas custody transfer systems from concept to commission

## GET KPI'S YOU CAN TRUST BY APPLYING THE RIGHT COMBINATION OF MEASUREMENT TECHNOLOGY & DATA MANAGEMENT BEST PRACTICES






### Why the Quality of your Mass Balance matters?

- Avoid overpaying for what you buy or getting underpaid for what you sell
- Assurance, control, and validation of material movements to avoid losses and theft
- Minimize the gap between custody measurement and reconciled measurement to reduce the uncertainty about this financial loss
- Reduce the gap between planned production and actual production
- Improve the accuracy of production cost and utilities consumption
- Quantify the confidence level of KPI's and other important production data used in daily decision making
- Produce and successfully defend accurate emissions, energy, and other compliance reports
- Pinpoint losses as they occur so that corrective actions are taken without delay
- Achieve a high degree of confidence in calculating efficiencies, productivity, yields, catalyst conversion rate, etc. of processes and unit operations

## Key applications

- Custody Transfer Validation
- Equipment Performance
- Inventory Management
- Material & Energy Balance
- Meter Performance Management
- Product Allocation
- Utilities Billing
- Cost Tracking
- Loss Control & Accounting
- Component balance
- Yield Accounting
- Quality tracking
- Combustion efficiency
- Emissions reporting

### How to make a Business Case for improving Mass Balance?






-  Assess the current closure of your mass balances and quantify the current uncertainty
-  Benchmark your results with industry peers
-  Analyze the performance of existing measurement systems versus critical balance point and stack rank the financial impact of the observed uncertainty.
-  Understand the impact of measurement uncertainty on other critical KPI's.
-  Identify the failure modes and data defects impacting the closure of the mass balance and develop corrective and preventive action plans

Take the first step today by contacting us to discuss a meter performance study, visit [www.emerson.com/massbalance](http://www.emerson.com/massbalance) or [www.sigmafine.net/company/contact-us](http://www.sigmafine.net/company/contact-us)

**PIMSOFI**

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