



## Application Spotlight

Improve measurement integrity and significantly improve overall mass balance



**Reliable and accurate data from key material streams helps you close mass balance gaps.**

### CHALLENGE

Production accounting is done to close the gap of what is booked as shipments and receipts compared to the operating plan and to accurately assess margins and profitability. The challenges with closing mass balances occur from data entry errors, measurement errors, or missing data.

Effective mass balance monitoring will help you:

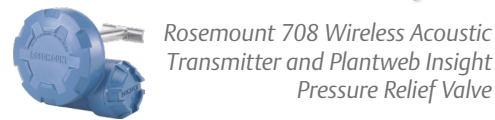
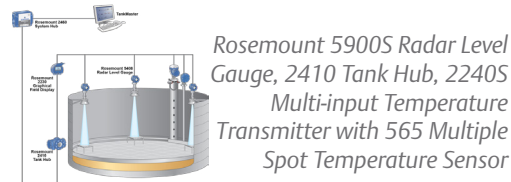
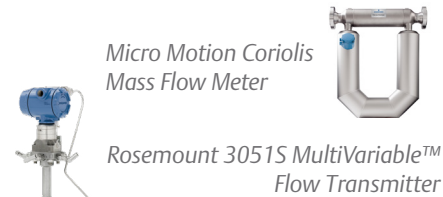
- **Improve Plant Profitability**
- **Achieve Sustainability Metrics**
- **Minimize Losses**
- **Manage Raw Material Costs**
- **Manage Labor Costs**

### OUR SOLUTION

Utilize Emerson solutions to significantly impact any area that has measurement errors.

- **Mass Flow** – Achieve accurate custody transfer measurement of feedstocks and final products
- **Density Measurement** – Improve accuracy of volumetric measurements with real-time density measurement
- **Tank Gauging** – Provide highest level-based measurement accuracy for large storage tanks
- **Process Level** – Implement cost effective level measurement for smaller storage tanks where custody transfer accuracy is not required
- **Pressure Relief Monitoring** – Enable identification and better understanding of relief events

Emerson has the portfolio breadth and industry experience to help you leverage automation technologies and services to achieve top operational performance.



Learn more about improving your Mass Balance at:  
[http://www.Emerson.com/Plant\\_Mass\\_Balance](http://www.Emerson.com/Plant_Mass_Balance)





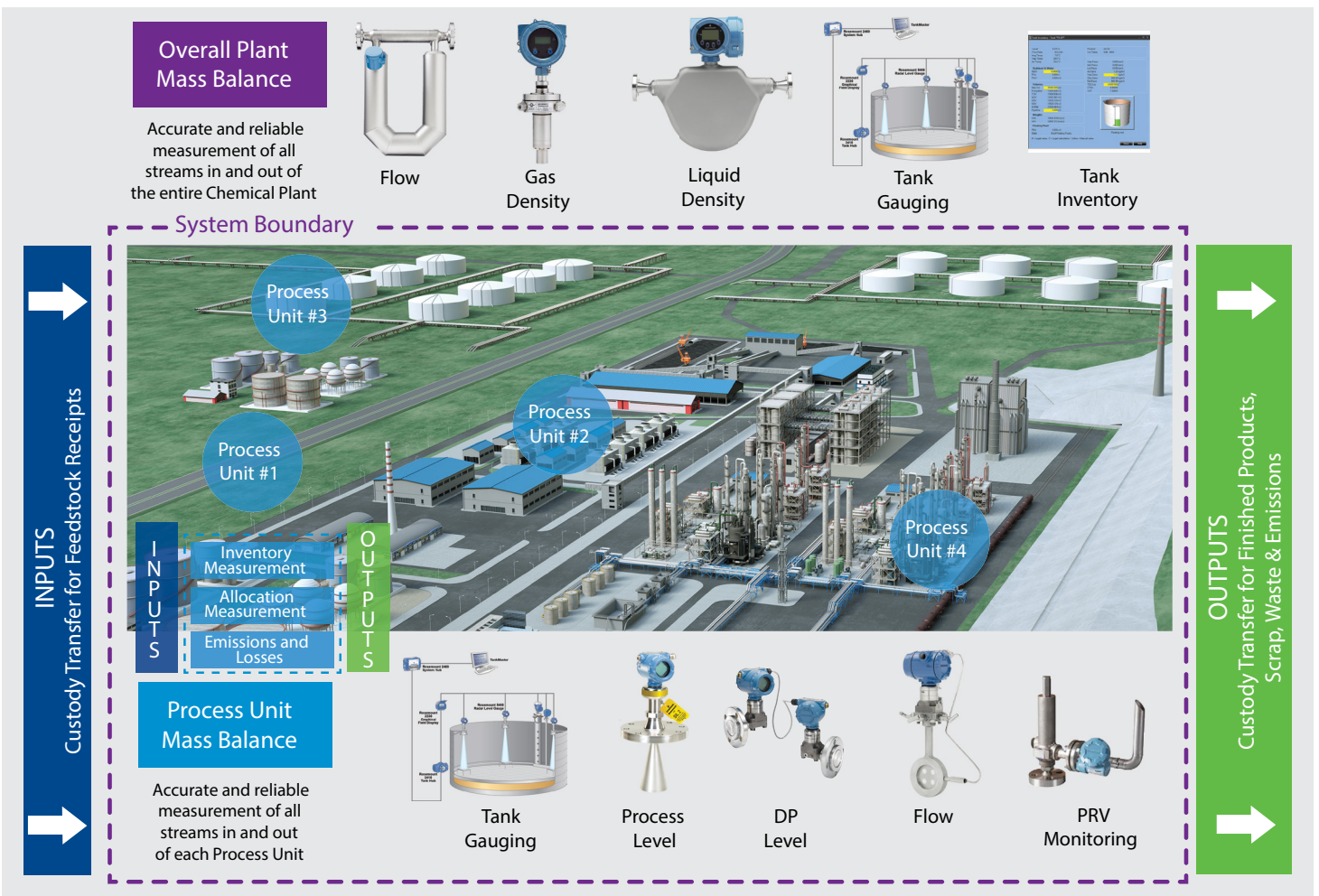
# Application Spotlight

## Improve measurement integrity and significantly improve overall mass balance

### THE VALUE OF EMERSON'S COMPREHENSIVE SOLUTIONS

Emerson offers a mass balance and production accounting study to help with your plant or process unit mass balance. The study can be facility wide or for a process unit. Existing measurements and procedures are compared against applicable standards and best practices in the industry. Recommendations are given to improve the balance and reduce the financial risk associated with losses. Improvements in custody transfer measurements ensure accurate and fair material and financial exchanges are occurring between parties. This helps make sure quality and sustainability claims are maintained.

Accurate process unit mass balance measurements can enable process unit engineers to better evaluate and optimize unit performance. This leads to better yield management and optimization, ensures safety by not operating above design limits, and allows more accurate emissions calculations to avoid penalties and fines.



**To discuss your application, contact your Emerson Sales Representative.**

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### Consider it Solved.

Emerson supports you with innovative technologies and expertise to address your toughest challenges.

