

“It costs too much to produce my product.”

The cost of rework, scrap and overcoming production delays resulting from quality problems can cost a company 20-40% of total manufacturing costs.

Real-time SPC: Cost-Reducer, Profit-Maker, DataNet Quality Systems

What if...

- You could significantly extend calibration intervals for your gas meters?
- You could use the same instruments, no matter what product you were making, instead of recalibrating or rearranging your reactor?
- When you're calculating fuel usage, you could eliminate 90% of the variability in energy content of your fuel gas?

How much are you spending to produce your product?

Every day, you look for ways to reduce production costs related to gas flow and increase profitability. But meeting your cost reduction goals in the face of rising feedstock, labor, equipment, and maintenance costs is a constantly moving target.

Because you're producing a wide variety of end products, it's difficult to optimize your use of raw materials, let alone execute your conversions in a timely fashion. Equipment degradation and measurement inaccuracies are constant challenges, further complicating your ability to keep costs down.

As a result of all these factors, you're constantly juggling time, materials, and budget—trying to produce as quickly as possible and limit fuel waste, with one eye on the clock and the other on your balance sheet.

Plant executives we talk to tell us about challenges like these:

“Our equipment requires too much maintenance.”

You're doing everything possible to keep operational costs down, but the highly manual, labor- and documentation-intensive activities associated with maintaining your flowmeters are stymieing these efforts. Not only are you forced to expend valuable time and resources on activities such as calibration, testing, and peripheral maintenance, you also have to take your processes off line to perform this maintenance. As a result, you're facing added bottom-line pressure and putting your plant's profitability at risk.

“We don't have a good way to deal with variability.”

You're tasked with creating a repeatable quality final product for each customer. But achieving the correct target every time for every customer requires you to navigate a great deal of variability – everything from process to feedstock to the recipe itself. Finding the right combination requires precision, and flexibility; otherwise, your plant stands to lose millions of dollars in lost time, lost business, and lost opportunity.

“Inaccurate measurements waste fuel.”

When you are trying to control combustion gas, natural gas or fuel gas, accuracy matters. Too much air or too little fuel can drive up costs or reduce boiler or fired heater efficiency making the consequences of imprecise measurements extend beyond wasted energy. Inefficiencies extend the amount of time it takes to produce your product, which can delay your processes, drive up your labor costs, and put customer loyalty – and revenue – at risk.

PROCESS GAS

Increase Efficiency

With production costs rising across the board, it's becoming more difficult to meet profitability goals—particularly given the pressure you're under to produce as much on-spec product as quickly as possible.

By choosing Micro Motion measurement technology from Emerson, you'll be able to optimize your use of process gas at your plant, driving greater speed and efficiency up and down the line.

CUT MAINTENANCE COSTS

Escalating demand, increased process complexity, and outdated flowmeters can create maintenance bottlenecks that crush efficiency and put your production goals at risk. With the simplicity of the Micro Motion Coriolis meter, combined with its built-in diagnostic capabilities, you'll be able to reduce the amount of maintenance your meters require and redirect your valuable resources toward more necessary activities.

GET THE RIGHT BLEND FASTER

Efficiently managing process variability is core to your plant's profitability. When you install Micro Motion Coriolis meters, you'll be able to measure mass directly, with the highest possible degree of measurement accuracy over a wide range of flow rates. As a result, you'll be able to achieve the right spec sooner, without having to switch instruments between recipes, which means you can expand your production capacity without putting your margins at risk.

REDUCE FUEL WASTE

Incorrect or imprecise measurements wreak havoc with your air-to-fuel ratios, limiting combustion efficiency and driving up energy costs. Because Micro Motion meters measure mass directly, regardless of fuel composition changes, you'll not only be able to optimize your use of fuel gas, you'll gain greater flexibility in the fuels you use—reducing fuel waste and improving overall efficiency.



A major Asian refinery installed Micro Motion meters and realized an average reduction in meter maintenance cost of \$5000 per year per meter because the meters have no wearing parts, nothing to wear out or break down, and meter recalibration is no longer required.

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