

# “It’s getting harder and harder to meet demand.”

*Downtime costs every factory at least 5% of its productive capacity, and many lose up to 20%. Many industrial facilities are underestimating their downtime by 200-300%.*

**How Much is Downtime Costing You? InTech, September /October, 2011**

## What if...

- When you’re considering all the instruments in your operation that could cause downtime, you had one less thing to worry about?
- You could reduce the likelihood that anything to do with gas flow will create unnecessary rework?
- When you’re changing recipes, you could do so without changing your flowmeter?

## How prepared are you to meet new demand challenges?

Your customers are under pressure to offer more product choices to an increasingly discerning public while, at the same time, adhering to lean manufacturing principles—and this pressure squeezes you from both sides.

Not only must you be prepared to create a wider variety of product in smaller quantities, but you must also deliver output to customers faster and more frequently than ever before. This means changing recipes on the fly, running your equipment and processes harder, and measuring gas flow precisely enough to ensure every batch meets customer specifications. In this environment, there’s little margin for delay and no tolerance for off-spec product.

But these escalating demands place tremendous strain on an infrastructure that was not designed to handle this level of capacity, placing you at greater risk for equipment failure, unplanned downtime, and other costly errors that jeopardize your ability to fulfill your customers’ orders.

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

### “Unplanned process downtime puts production targets at risk.”

You’re under pressure to produce a wider variety of products, faster. This means running your equipment and your people as hard as possible, which increases the likelihood of equipment breakage, human error, missed measurements, and other failures that can shut down your gas processes. The result? Costly shutdowns that have a ripple effect across your entire system and put customer relationships at risk.

### “Off-spec product wastes time and money.”

When your output does not meet customer specifications, you’re not just driving up your labor and waste costs. You’re jeopardizing customer relationships by adding time and re-work that ties up equipment and creates bottlenecks and delays across all of your processes.

### “Our infrastructure and process simply cannot support the new capacity demands.”

It’s difficult to meet new and varying customer demands when your infrastructure and processes are not up to the task. In today’s “just in time” manufacturing environment, you need the flexibility to change recipes on the fly, optimize equipment use, and manage your flow rates with an extraordinary degree of precision. Unfortunately, conventional flow measurement technology simply cannot keep pace with your new reality.

## PROCESS GAS

Improve flow and flexibility

Your customers are demanding faster turnarounds and a wider variety of products, straining your capacity and increasing the risk of equipment failure, off-spec results, and system downtime.

With the simplicity, accuracy, and reliability of Micro Motion measurement technology from Emerson, you'll gain the flexibility and capacity you need to meet these escalating demands.

And, because our meters deliver the highest degree of accuracy and rangeability in a single, self-contained unit, you'll be able to produce product more quickly, without placing undue stress on the rest of your system.



*A PET manufacturer installed Micro Motion meters and switched from batch to continuous processing using flow measurement, realizing a reduction in process variability and waste while increasing throughput and product quality.*

### MINIMIZE PROCESS DOWNTIME

Increased demand has stretched your resources to the breaking point, increasing downtime and creating bottlenecks across your system. By installing the Micro Motion Coriolis meter, you'll minimize the number of moving parts that can cause process disruption while improving your ability to identify and correct abnormal conditions before they shut you down. Smart Meter Verification is a revolutionary diagnostic capability that can measure the stiffness of the metering tubes to verify that the flow calibration factor is still correct resulting in reduced need to remove the device for calibration.

### PRODUCE ON-SPEC PRODUCT MORE QUICKLY AND RELIABLY

Inaccurate measurements can lead to off-spec product that not only wastes time and puts customer satisfaction at risk, but also creates a ripple effect of costly backups throughout your process. When you rely on Micro Motion Coriolis meter direct mass measurement, you'll gain the highest degree of accuracy available on the market—reducing the likelihood of spec drift resulting from your flowmeter and improving your ability to isolate the true cause more quickly.

### BOOST CAPACITY

To remain competitive in the face of high demand and extreme variability, you need the ability to adapt quickly, with minimal hassle. Micro Motion meters maintain exceptional accuracy across a wide range of flow rates, delivering continuous inline measurement without the need to compensate for pressure and temperature. The result? Greater flexibility and faster throughput—with no corresponding drop-off in quality.

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