



HIGH ACCURACY

m e a s u r e m e n t i n s t r u m e n t s

PRODUCT DATASHEET

www.high-accuracy.com

A photograph of an industrial facility. In the foreground, a stainless steel pipe assembly is mounted on a metal walkway with a grid pattern. The pipe has several flanged connections and a vertical section. In the background, there are large concrete storage tanks and more industrial structures under a blue sky with some clouds. A blue banner is overlaid on the top left of the image.

Achieve Absolute Measurement Confidence

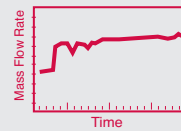
Micro Motion Smart Meter Verification
Easily verify flow meter performance – in line and on demand.



Maintaining measurement accuracy and meter integrity is a challenge

You have a lot to manage when it comes to verifying the performance of your instruments and optimizing regulatory compliance. Micro Motion® Smart Meter Verification is the only tool to deliver absolute confidence in measurement integrity and performance to help address and resolve these common challenges:

“With over 1000 instruments in operation, we need a single diagnostic that will verify Coriolis meter performance.”
– Instrumentation Engineer



“The average cost of calibration is \$1,000 to \$5,000.”
– Metrology Manager



“The average out-of-service time to recalibrate a meter is 1 to 6 weeks.”
– Instrumentation Engineer



“\$160,000 in staffing is required to complete calibrations for 26 new flow points across six plants.”
– A Major US Utility Provider



“We are required by regulation to prove our Coriolis meters once a month, even when performance hasn’t changed in 12 years.”
– A Major Upstream Oil and Gas Producer





“Instead of being uncertain about the state of your meter, what if you could monitor measurement accuracy and meter integrity without stopping your process?”

- Guy Fulkerth, Instrument Specialist / Maintenance Team Leader, Keyera Energy

Achieve confidence in your measurement and insight into your process



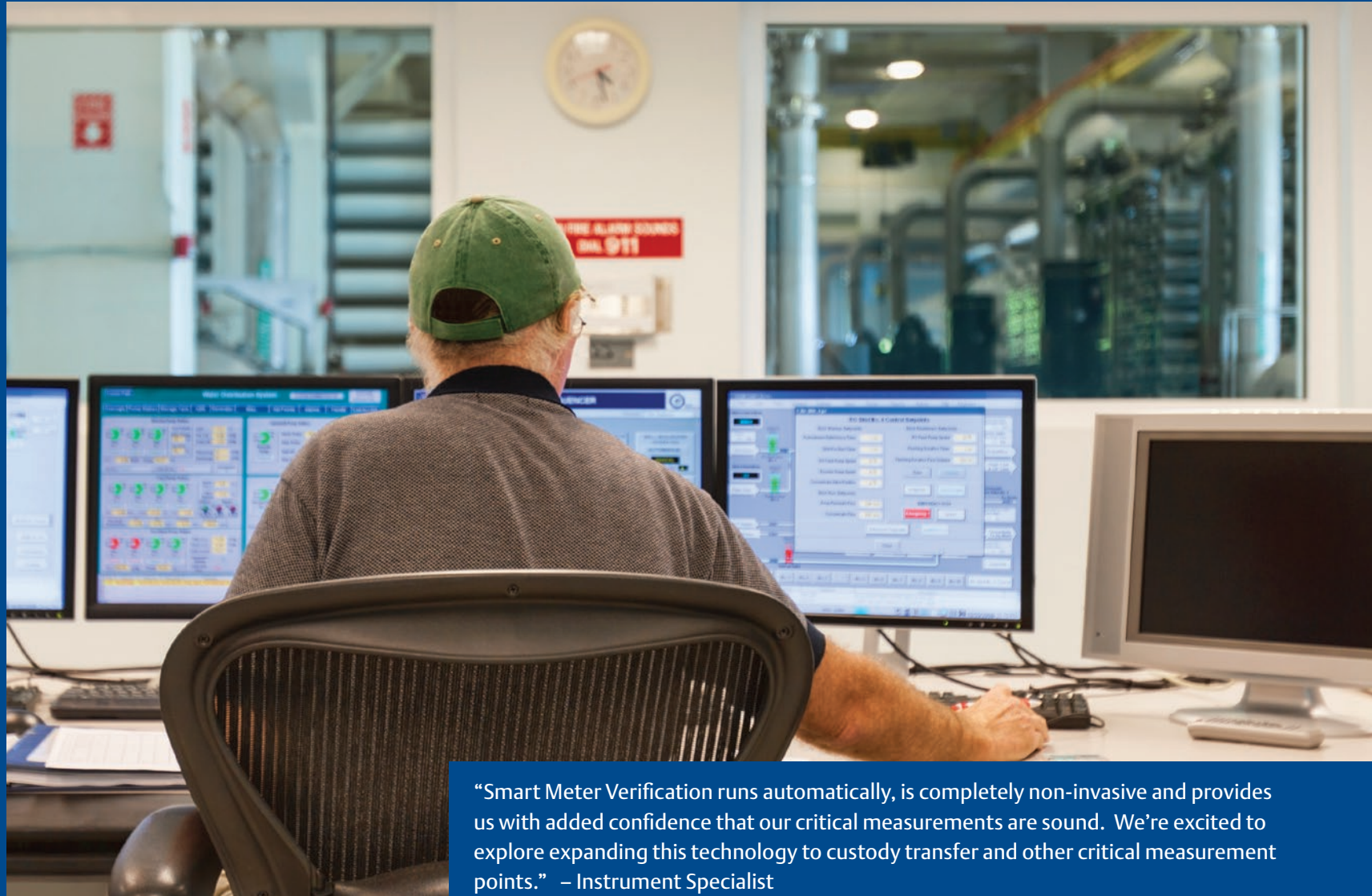
Smart Meter Verification transforms diagnostic data into actionable information to ensure greater operational safety, quality, efficiency and certainty.

Expensive proving and calibration cycles can now be extended to save thousands by eliminating labor, outsourced calibration services and production interruptions with a standard traceable calibration verification.

Measurement performance is confirmed, under current flowing conditions, to be within factory accuracy specifications.

These actionable instrument and process diagnostics can be accessed across your existing operational infrastructure by integrating with digital hosts like AMS with SMART Wireless.

There is no longer a need to interrupt your process in order to achieve confidence in your instruments, measurements and process.



“Smart Meter Verification runs automatically, is completely non-invasive and provides us with added confidence that our critical measurements are sound. We’re excited to explore expanding this technology to custody transfer and other critical measurement points.” – Instrument Specialist

Reduce costs

“I know that sending my meter to be calibrated at a lab won’t make it any better, so SMV gives me the confidence to save money and only calibrate my meter when it’s needed.”

– Joel Singleton, Process Control I&E Engineer
Evonik Industries

Increase uptime

“Process monitoring via wireless saves \$5000 for every installation point. For our multiple meters, Green House Gas meter verifications save us \$18,000 per year without process downtime.”

– Kien Vo, Manufacture Technology Principle Engineer
Dupont Fayetteville

Eliminate uncertainty

“SMV now tells me if the meter is measuring within factory uncertainty specifications - under the current flowing conditions, not just in the lab.”

– Metrology Manager,
Major Global Chemical Company

Improve quality and safety

“SMV improves safety by eliminating human factors and loss of the SIS measurement function during proof testing. When proof testing means taking the meter out of service and bringing to a calibration facility, in-line verification is the answer.”

– Kees Kaysjer, Global SIS Instrument Lead
Dow Chemical Company

Delivering insight for better measurement and better process management



Smart Meter Verification overview

Smart Meter Verification enables you to check your flow meter's health without taking your meter out of line. It's diagnostics continuously monitor meter health to empower users to take action and avoid safety and measurement issues as a result of corrosion, erosion, over-pressurization, build-up and other sources of potential instrument damage.

Smart Meter Verification performs a traceable calibration verification with a patented tube integrity diagnostic, as Coriolis meter calibration factors are directly related to the mechanical stiffness of the flow tubes. This method provides early detection of instrument damage, before it creates a safety risk or accuracy shift. This traceable calibration verification, as well as a verification of all electrical components, is now included as a standard feature.

[Emerson.com/SmartMeterVerification](https://www.emerson.com/SmartMeterVerification)



Benefits of Smart Meter Verification

- Troubleshoot any process and isolate/confirm meter performance with rapid and actionable verification feedback
- Proactively monitor the condition of meters with regular verification, trending and forecasting the need for calibration
- Assure stability of operation with ongoing measurement verification, including verifying meter after process events or upsets
- Accessible directly at the meter, through digital connectivity or via the Smart Wireless THUM Adapter, for flexibility of use

Easily monitor meter performance without interrupting your process

Agency recognition



Traceable calibration verification results on the SMV report are recognized to extend proof-test and recalibration intervals by agencies including the EPA, FDA, API, Exida, GOST-R, and more.

Coating detection



Enhance maintenance and Clean-In-Place (CIP) programs to avoid proving failures, measurement inaccuracies and quality challenges.

Intuitive Interface



Quickly generate agency-recognized reports and confidence in your Coriolis measurement through ProLink, Ethernet webpages and AMS.

Two versions to address your verification needs

	Basic	Professional	
Sensors	CMF, CMFS, F and H		
Transmitters	Direct Connect, 1500, 1700, 2400, 2500, 2700, 5700 (Enhanced Core Processors Only)	Direct Connect, 1500, 1700, 2400, 2500, 2700, 5700 (Enhanced Core Processors Only)	5700
Access	Included	Licensed	90-Day Trial, Licensed
Calibration verification	●	●	●
Electronics verification	●	●	●
Automation	●	●	●
Compliance Report		● *	● *
Previous 20 verifications stored		●	●
Coating detection			●
Installation verification			●
Multiphase diagnostic			● **
Flow range diagnostic			● **

* Access, Save and Export with ProLink III Basic and Professional, Ethernet webpage, and AMS SMV SNAP-ON

** Access 24-hour visual historian for these diagnostics in ProLink III Professional

Basic

- Calibration and electronics verification **now included with all Enhanced Core Processors**
- Follow actionable NE107 alert recommendations to resolve operational challenges quickly
- Verify measurement is within factory specification under current flowing conditions

Professional


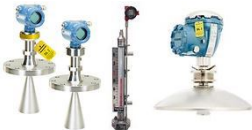










- Optimize instrumentation and process compliance
- Generate reports recognized by regulatory agencies (e.g. EPA, FDA, API, SIS) to extend recalibration, proving and proof-test intervals
- Detect coating to protectively clean equipment before it leads to quality, safety or proving challenges
- Improve measurement performance by diagnosing process upsets or an improper installation



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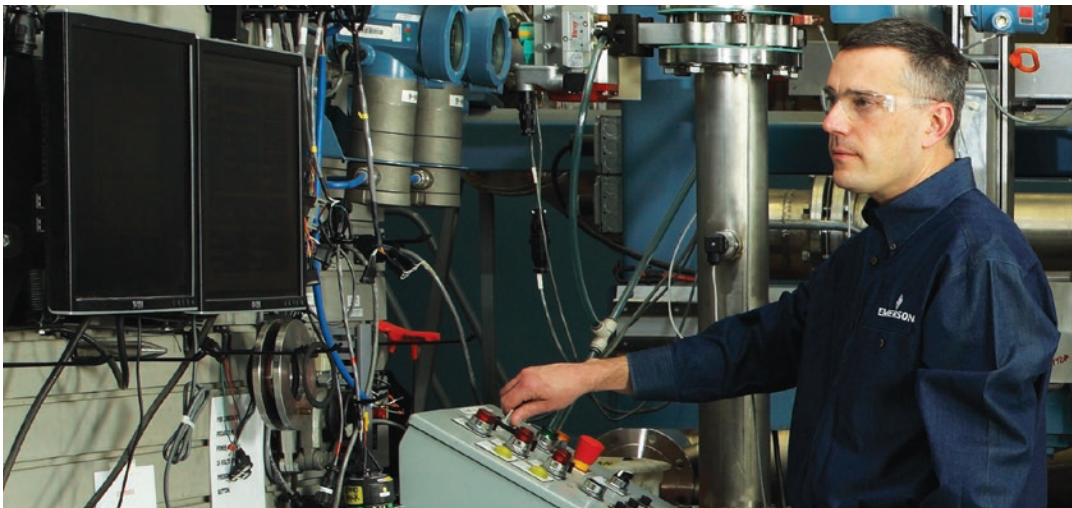
measurement instruments

Our offering:

	<p>Pressure Measurement</p>		<p>Level Measurement</p>
	<p>Temperature Measurement</p>		<p>Flow Measurement</p>
	<p>Marine Measurement & Analytical</p>		<p>Gas Analysis</p>
	<p>Liquid Analysis</p>		<p>Flame and Gas Detection</p>
	<p>Tank Gauging</p>		<p>Wireless Infrastructure</p>
	<p>Acoustic & Discrete</p>		

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Delivering insight for better measurement and better process management



MICRO MOTION™

Smart Meter Verification is an easy-to-use, automatic diagnostic tool that monitors the flow meter's performance and integrity – without interrupting your process or your measurement

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