

Rosemount and Micro Motion SIS Instrumentation



Two Options – One Result: A Safer, More Profitable Plant



“How can I ensure my plant is compliant and profitable?”

You’re responsible for ensuring that your plant complies with IEC 61511, Safety Instrumented Systems (SIS) for the process industry sector. Yet you still need to maximize profitability, which means reducing costs while maintaining flexible production levels. Is all this possible? It is, when you choose instrumentation from Emerson Process Management. Rosemount® and Micro Motion® instrumentation enables you to meet your safety requirements and make the best decision for your business to help improve your bottom line.

IEC 61511 recognizes two methods for qualifying sensors for use in SIS applications: certification to IEC 61508 or use of sensors with a proven history of safe operation (prior-use). With either option, Emerson is here to support your SIS sensor decision.

1 Prior-Use

For those choosing the prior-use methodology, demonstrating a history of safe operation is paramount. As the world’s most preferred sensors, Rosemount and Micro Motion devices have billions of safe operational hours supported by third-party documentation. You now have the confidence and documentation needed for installing transmitters in your safety systems.

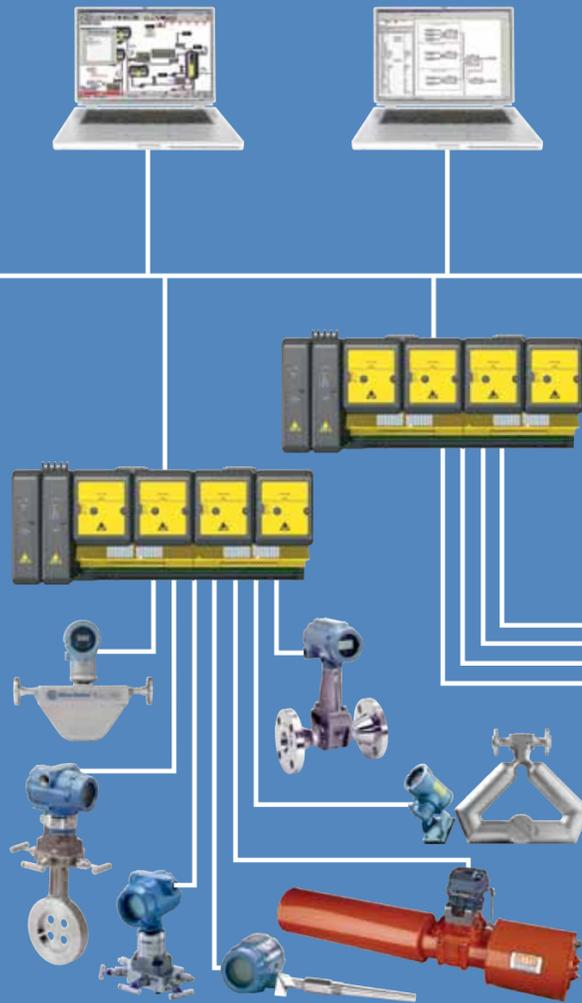
2 Certified

When your application requires sensors certified to IEC 61508, Rosemount and Micro Motion certified instrumentation is second to none. Emerson has enhanced its field-proven Rosemount pressure and temperature technologies and Micro Motion flow and density measurement technologies to achieve certification to the IEC 61508 safety standard.

1 Prior-Use

Rely on Rosemount and Micro Motion Prior-Use Sensors

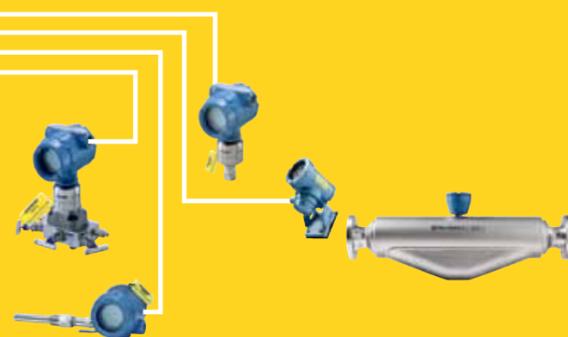
Emerson offers a variety of scalable sensors which allow best practice installations to lower costs and expedite start-up. These field-proven devices have billions of hours of operating experience to give you the confidence you need for your safety systems.



2 Certified

Rely on Rosemount and Micro Motion Certified Sensors

Emerson provides industry-leading pressure, temperature, flow and density safety-certified sensors. Our innovative sensor starts with field-proven designs that are enhanced to meet the IEC 61508 safety standard requirements for use in SIL 2 & 3 applications. The result for you is simplified compliance to IEC 61511 with the same reliable sensors you know and trust.



Safety Solutions from Emerson Process Management

Two Options. Lower Cost

Ultimately, SIS sensor selection is your choice: prior-use or certified. In either case, Rosemount and Micro Motion sensors will lower cost through reliability and performance, simplified compliance, and ease of use.

Performance and Reliability

The performance and reliability of Rosemount and Micro Motion sensors continues to make them the most popular brands of SIS sensors under prior-use. That same cost saving performance and reliability has now been taken to the next level with the safety certified version. Whichever option you choose, you are guaranteed Rosemount and Micro Motion reliability and performance.

Ease of use

Familiarity with hardware and procedures is critical for a cost-effective SIS installation. Emerson has shipped over nine million Rosemount and Micro Motion sensors - a status unparalleled in the industry. This familiarity of similar designs, interfaces, and parts saves on installation and validation cost. Either choice provides ease of use.

Simplified Compliance

Emerson understands that documentation is the key to IEC 61511 compliance so we make it easy to obtain. Emerson lowers your cost by simplifying documentation through on-line access.

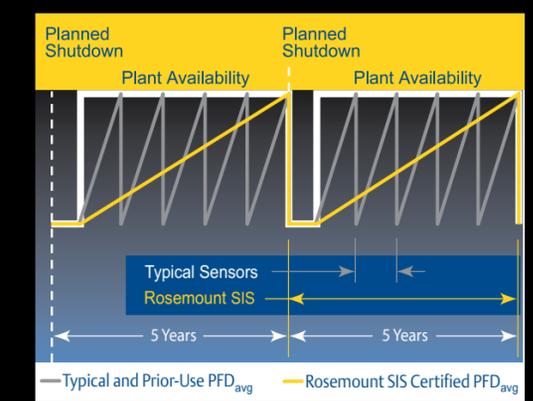
Prior-Use	Certified
FMEDA	FMEDA
• Management of Change	Certificate
• Product Revision History	Safety Manual
• Operational Hours	• Proof-Test
• Proof-Test	
Safety Manual	

Documentation available online at www.emersonprocess.com/sis

Maximize Uptime. Proof-Test on Your Time

Rosemount and Micro Motion sensors, both certified and standard, offer superior stability and unparalleled reliability, lowering operational cost while maximizing uptime.

Proof-test requirements consist of a simple output test every 5 years and a calibration test every 10 years. Now you can do the SIS proof-test during scheduled shutdowns, increasing uptime.



Extending the PlantWeb architecture to deliver the world's first smart SIS

Only Emerson's smart safety instrumented system (SIS), an extension of the proven PlantWeb® digital plant architecture, uses digital intelligence and diagnostics from sensor to logic solver to final control. This integrated approach offers automated safety-loop testing and advanced diagnostics that increase system availability while reducing life-cycle costs and facilitating regulatory compliance.



SIS System

The DeltaV™ SIS system includes a scalable logic solver, integrated configuration software, and embedded digital communications – plus AMST™ Suite: Intelligent Device Manager software to document and archive instrument configurations and changes.



SIS Sensors

Emerson's Rosemount and Micro Motion sensors' stability and reliability will lower cost and increase uptime through improved performance, simplified compliance, simple proof-tests, and ease of use.



SIS Final Control Elements

Final Control Elements utilizing Bettis®, Hytork®, and FieldQ® pneumatic valve actuators and Fisher® FIELDVUE® digital valve controllers provide diagnostics to extend proof-test intervals while delivering high reliability and safety. SIL-PACT™ integrates these elements and more into a complete SIS Final Control Solution from one source, Emerson.



SIS Services

With expertise proven in safety projects around the world, our professional safety personnel and service teams can help you comply with safety standards and make the most of your smart SIS throughout its life cycle.

For more on Emerson's complete-loop approach to safety, visit www.EmersonProcess.com/SIS.

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