

GLOBAL
SOLUTIONS

SMARTLINE **TRANSMITTERS**

So Smart, They Make Life Easy



Honeywell

— THE COMPANY

At Global Solutions, we redefine industrial automation. Since 2011, we've been synonymous with innovation, delivering a range of products, solutions, and services that set industry standards.

About Us:

Global Solutions is a distinguished player in the realm of industrial automation, offering a comprehensive range of products, solutions, and services since its inception in 2011. With a decade of experience under our belt, we have evolved into a trusted partner for businesses seeking advanced automation solutions.

Our Offerings:

Our portfolio encompasses a diverse array of industrial automation products, solutions, and services that cater to the unique needs of our clients. We take pride in being an authorized partner of esteemed multinational brands, including Honeywell, Drager, UL Group, Eaton-MTL and Weidmuller. Additionally, our expertise extends to complete solutions for brands such as Oring, Procentec, Helmhoz, HMS, etc. ensuring a comprehensive range of choices for our clients.



— OUR VISION & MISSION

Vision:

To be a globally recognized leader in providing innovative and sustainable industrial automation solutions, setting the standard for excellence in the industry.

Mission:

To empower businesses through cutting-edge technologies, exceptional products, and unparalleled services, fostering growth, efficiency, and safety in industrial processes.



Choosing Global Solutions means...

Choosing a partner that provides not just solutions, but a commitment to excellence and innovation. Our blend of exclusive partnerships, technical expertise, customer-centric approach, and efficient supply chain establishes us as a leader in the industrial automation landscape. Experience the Global Solutions difference for yourself.

Expertise in Network Services:

At Global Solutions, we offer more than just products. Our state-of-the-art services for Profibus and Profinet networks demonstrate our commitment to seamless implementation and optimization. We don't just sell solutions; we make sure they work flawlessly within your network infrastructure. Our experienced team specializes in optimizing network performance for efficiency and reliability.

Serving Panel Builders and System Integrators:

Global Solutions is proud to extend its offerings to Panel Builders and System Integrators of various brands. We recognize the pivotal role these partners play in the industrial ecosystem, and we provide them with industrial automation products that empower them to deliver exceptional solutions to their clients.

Honeywell Field Instrumentation, Thermal Solutions and Control Systems:

We're not just a generalist; we specialize in Honeywell Field Instrumentation and Control Systems designed specifically to meet the intricate needs of process plants. This expertise reflects our commitment to delivering tailor-made solutions that are finely tuned to process plant operations.

Expertise in Dräger Fixed Gas Detection:

Global Solutions takes pride in providing a specialized range of Fixed Gas detection products, solutions, and services using Dräger technology. This offering caters to various process industries, ensuring safety and compliance with the highest standards in gas detection.

IIOT, Industrial 4.1, Cybersecurity, and Advanced Software:

Global Solutions provides cutting-edge solutions in the realms of Industrial Internet of Things (IIOT), Industry 4.1, Cybersecurity, and advanced software. We empower businesses to harness the potential of the latest technologies, ensuring efficiency, connectivity, and security in their operations.

Continuous Innovation:

At Global Solutions, our commitment to innovation is unwavering. We continuously explore new products, solutions, and services to provide a one-stop solution to our valuable customers. This dedication ensures that we stay at the forefront of technological advancements, offering our clients the latest and most effective solutions in the ever-evolving field of industrial automation.

Experienced Leadership:

Our senior leadership team comprises individuals with over 20 years of experience in the industrial automation sector. Their in-depth knowledge and hands-on expertise ensure that our solutions not only meet technical standards but also align with industry best practices.

Customer-Centric Approach:

At the core of our philosophy lies an unwavering commitment to customer satisfaction. We understand that your success is our success. By taking the time to comprehend your unique requirements, we deliver solutions that seamlessly align with your objectives, fostering lasting partnerships.

Customer Appreciation:

We're proud of the fact that our efforts have not gone unnoticed. The appreciation we've received from our customers is a testament to our dedication to excellence and our ability to deliver on our promises.



SMARTER FEATURES MAKE YOUR LIFE EASIER

SmartLine Transmitters Deliver Total Value Across the Entire Plant Lifecycle, from Construction to Operations to Maintenance.

With better performance, modular construction, additional diagnostics and the best integration features, Honeywell SmartLine® transmitters help you reduce project costs and startup time, avoid unplanned downtime, improve product quality, reduce spare parts inventory and shorten time to repair.

The intuitive cloud-based SmartLine Application and Validation Tool:

Helps you get the right instrument for your application. The tool enables error-free selection and validation of the instrument through efficient online collaboration. The tool documents your selection inputs and helps you share it with others. The ordered instrument arrives fully preconfigured, shortening commissioning time.

Universal terminals

Reduce costly wiring errors, troubleshooting and re-work, saving valuable commissioning time.

An innovative modular design:

reduces complexity along the entire lifecycle, from avoiding initial purchasing costs, providing flexibility for post start-up modifications, reducing maintenance and inventory costs by eliminating the number of spare parts required.

The advanced display and local configuration:

provide capabilities for field operators to more efficiently perform tasks, solve problems and avoid errors. The advanced graphical display provides vital information and insight to field personnel about the process, alerts and more. The easy-to-use display and the three local configuration buttons enable you to be more efficient in the field without carrying a handheld device for setup.

SmartLine transmitters are part of an integrated solution built over years – that has one essential ingredient: trust in the quality of the equipment and services delivered by Honeywell.”

– DR. DIETER TUPPINGER,

SENIOR VICE PRESIDENT PETROBRAZI SITE

MANAGEMENT PETROBRAZI



SMARTLINE PRESSURE TRANSMITTERS

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Redefining Performance in Industrial Pressure Measurement.

SmartLine Pressure Transmitters set the standard for total performance in the harshest process environments, featuring the industry's first modular and most robust pressure transmitters. When using the SmartLine Application and Validation Tool, the embedded chemical compatibility chart enables easier selection of wetted parts and the automatic instrument data sheet generation saves precious engineering hours.

PRESSURE TRANSMITTERS:

- Improve product yield and quality through tighter process control with the industry's best total performance, fast response and long-term linear stability.
- Reduce inventory and maintenance costs with a single transmitter covering a wider range of applications.
- Speed up project delivery by eliminating recalibration at sites using three available calibration ranges.



SMARTLINE TEMPERATURE TRANSMITTERS

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A New Standard for Temperature Transmitters: Modular, Accurate and Reliable for the Lowest Cost of Ownership

SmartLine Temperature Transmitter offers high accuracy and stability over a wide range of process and ambient temperatures. They set a standard for total performance for industrial processes including and noisy process environments.



TEMPERATURE TRANSMITTERS:

- Maximize production and minimize maintenance by reducing the calibration frequency and complexity through industry leading stability.
- Reduce the number of required transmitters and increase control through two-sensor input, including the ability for split-range sensing.
- Further reduce the need for additional hardware by utilizing a digital output option and eliminating the need for a separate switch.
- Increase uptime and decrease wiring costs through more reliable measurements and shorter sensor runs.



SMARTLINE MULTIVARIABLE TRANSMITTER

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Single Device for Multiple Measurements:
Discover the Smart Power of 3-in-1.

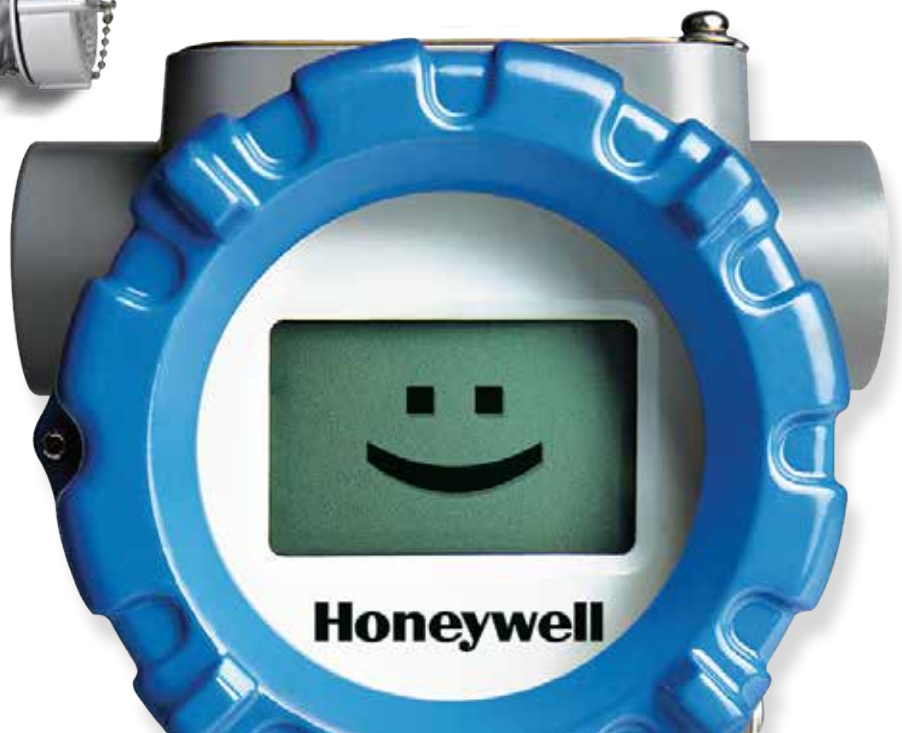
Smartline Multivariable Transmitter measures differential pressure, static pressure and process temperature with minimal process intrusions. It provides reliable, accurate and stable flow measurement with use of standard and dynamic compensation algorithms.

MULTIVARIABLE TRANSMITTERS:

- Improve energy efficiency and quality through accurate flow measurement.
- Increase reliability with improved availability through fail safe flow measurement and superior noise performance.
- Reduce inventory and cost of ownership by utilizing thermocouple inputs for high temperature applications.
- Decrease overall costs by eliminating the need of special tools for setup and configuration with easy-to-use using device type manager (DTMs) tools.

SmartLine Remote Meter - RMA

Honeywell's SmartLine® RMA 800 Remote Meter Assemblies provide process values in locations where the integral meter in the field instrument is difficult to view. They are used as output and status indicators for Honeywell SmartLine field products and can also be used as output indicators with any non-Honeywell transmitter operating within 4 to 20ma current loop or the appropriate digital protocol.



SMARTLINE WIRELESS TRANSMITTERS

Industry-leading Technology for Wireless Monitoring and Control.

SmartLine Wireless continues Honeywell's leadership by providing a scalable and future-proof wireless measurement solution. It seamlessly integrates with the Experion® control system, as well as the Honeywell Connected Plant portfolio. The new series of transmitters is compliant with the ISA100 Wireless™ protocol and interoperates with other devices on the existing and new OneWireless™ networks.

SMARTLINE WIRELESS TRANSMITTERS:

- Honeywell designed its wireless system so that customers could install a single high-performance network for process monitoring with the flexibility to add more critical applications, like control, when and if they are ready. To complete a fully ready control offering, SmartLine Wireless Pressure is also ready for control use
- Honeywell customers currently utilizing XYR™ 6000 wireless transmitters can also painlessly add SmartLine Wireless Pressure to their networks
- The portfolio consists of Pressure, Temperature and the versatile Universal IO transmitters
- Seamless integration of the new wireless transmitter with the host system enables customers to enjoy the benefits of a fully integrated solution with no new learning curve



SMARTLINE LEVEL TRANSMITTERS

Taking User Experience and Plant Performance to a Whole New Level

SmartLine Level offering include innovative Guided wave as well as 80GHZ Non contact Radar technologies which allow reliable and efficient level control in a wide range of industrial applications. They set new standards for total performance.

SmartLine SLN700 Non contact radar is available for liquid as well as solid level measurements.

Level Transmitters offer high accuracy and stability over a wide range of Level applications.

SmartLine Level transmitters are an ideal solution for demanding process level needs, with easy-to-use and low-maintenance character.

LEVEL TRANSMITTERS:

- Eliminate poor production quality and false off-process trips in highly complex tanks with obstacle immunity and dynamic false echo suppression algorithms
- Maximize use of existing infrastructure in small tanks using blocking distance optimization
- Eliminate off-process measurement and enable production under highly dynamic processes and change-over conditions using enhanced firmware with advanced correlation algorithm for automatic amplitude tracking
- The SmartLine family is also fully tested and compliant with Experion® PKS, providing the highest level of compatibility assurance and integration capabilities. SmartLine easily meets the most demanding needs for level measurement applications

"We like the new features on the Honeywell SmartLine series of transmitters. The [universal terminal] is a great idea and very valuable to us... also, we find the enhanced diagnostics and modular design very helpful."

PETER EVANS, INVISTA



SMARTLINE PROBE ASSEMBLIES

- Rigid, threaded and socket weld or drilled flanged temperature assemblies
- RTD or thermocouple sensors with thermowells
- Order pre-assembled with integrated transmitters for a single, complete unit
- Tapered and straight thermowell designs

Our integrated transmitter solutions give process manufacturers, OEMs, and EPCs ready-to-use, single stop solution for long-lasting, accurate measurement. We help ensure quality, reduce installation times and cut costs.



SMARTLINE CONNECTION ADVANTAGE



The SmartLine Connection Advantage

Ensures a unique integration of the SmartLine transmitters with the Experion control system, making your operations more efficient, processes more reliable and employees safer. Transmitter messaging, maintenance mode indication, tamper reporting and Field Device Manager (FDM) area health views are uniquely available to operators and field personnel. The SmartLine transmitters are extensively tested with Experion, assuring simple, trouble-free installation and start-up.

DISCOVER HONEYWELL

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Discover how Honeywell's SmartLine transmitters can make your life easier by delivering smart performance, smart design and a smart user experience. Visit us at www.honeywellprocess.com/smartline

Work Smarter

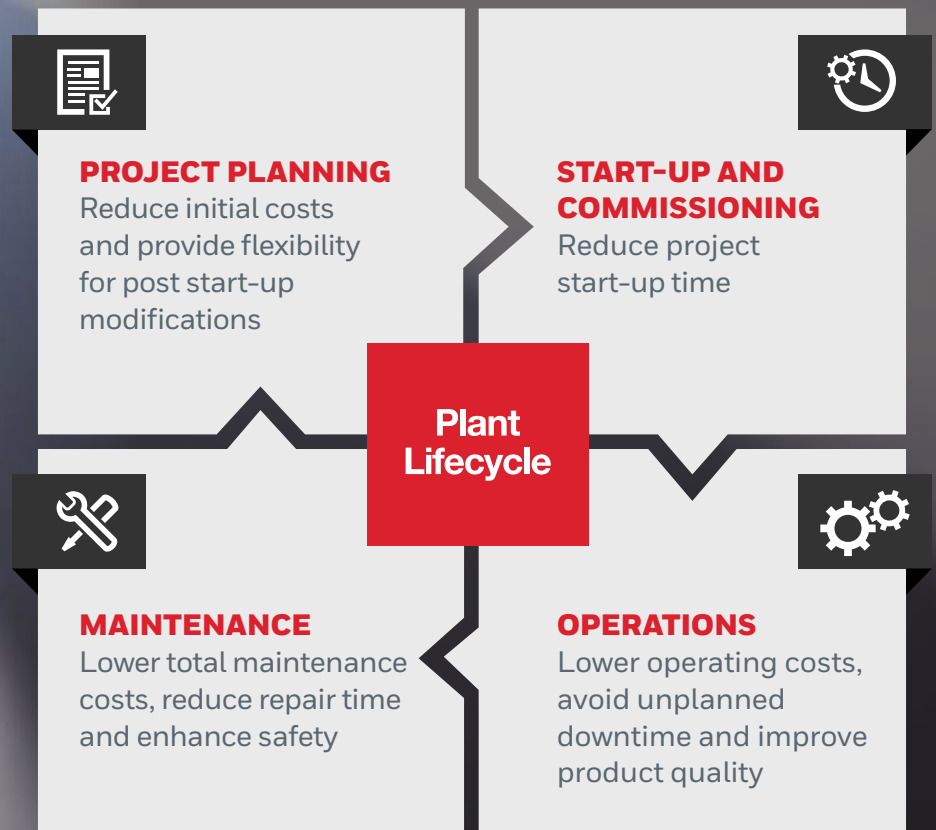
Honeywell's SmartLine Pressure, Temperature, Multivariable, Level and Wireless transmitters transform the complexity of a traditional plant lifecycle into a unique user-friendly process, adding value through their superior performance, lower total cost of ownership and comprehensive control system integration.

Discover SmartLine Here

SmartLine Warranty

To boost your confidence and efficiency, choose an extended warranty option for your SmartLine transmitters – and protect your investment even after your factory warranty has expired.





REDEFINING SMART

Smart Performance

SmartLine accuracy, stability and response time result in tighter process control, improving product yield and quality

Smart Design

SmartLine's innovative modular design allows quick on-field replacement of parts, reduces maintenance costs and spares inventory. Universal terminals reduce costly wiring errors. Rich advanced display and local configuration enable field operators to more efficiently perform tasks, solve problems and avoid errors with no need for a handheld device.

Smart User Experience

Cloud-based design tool, smart messaging, maintenance and safety features as well as unique integration with Honeywell's Experion® control system reduce design and operator errors and enable faster intervention to avoid process upsets.

HONEYWELL VERSATILIS

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Flexible, Intrinsically Safe Handheld Configurator Solution

Honeywell Versatilis™ is next generation smart and flexible solution for configuring, calibrating, monitoring and diagnosing universal HART, Modbus* and Honeywell DE devices.

- Intrinsically safe, certified for hazardous location use
- State-of-the-art intrinsically safe tablet, contemporary smart App for configuration and diagnostics
- Safe and easy operations as devices can be securely communicated with from a distance
- Single solution to communicate with HART, Modbus, DE and Wireless devices
- Advanced Instrument Asset Management features such as Offline Configurations, History
- Pre-loaded with required software and all registered HART DD files
- Open platform for other secure productivity and mobility applications
- Simple, easy and free upgrades to new DD files as a user function
- Commercial off-the-shelf batteries for the communication interface
- Convenient and bundled accessories



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HONEYWELL VERSATILIS FOR CONDITION BASED MONITORING

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Maximize Uptime, Reliability, and Efficiency

Honeywell Versatilis™ transmitters unlock the possibilities for condition-based monitoring of rotating equipment, including pumps, motors, compressors, fans, blowers, and gearboxes.

By 2030, condition-based maintenance in manufacturing industries could add \$290-530M in value.¹ To capture this, though, technology providers must raise their game to ease installation, enhance interoperability and cyber security and ensure the lowest possible wireless infrastructure costs.



Honeywell Versatilis transmitters help meet these needs for effective condition based monitoring:

- Measuring vibration, surface temperature and acoustics
- Communicating measurements on LoRAWAN®
- Integrating with commercial off the shelf gateways (COTS) for interoperability and supporting COTS LoRA to MQTT gateways for integration with MQTT clients
- Offering configuration in minutes over Bluetooth
- Supporting multiple/ flexible mounting options

They also come with a built-in FFT algorithm, provide IP67 Protection, and are certified for intrinsic safety. Finally, they deliver low power consumption and a long battery life.



MAXIMIZE PLANT UPTIME:

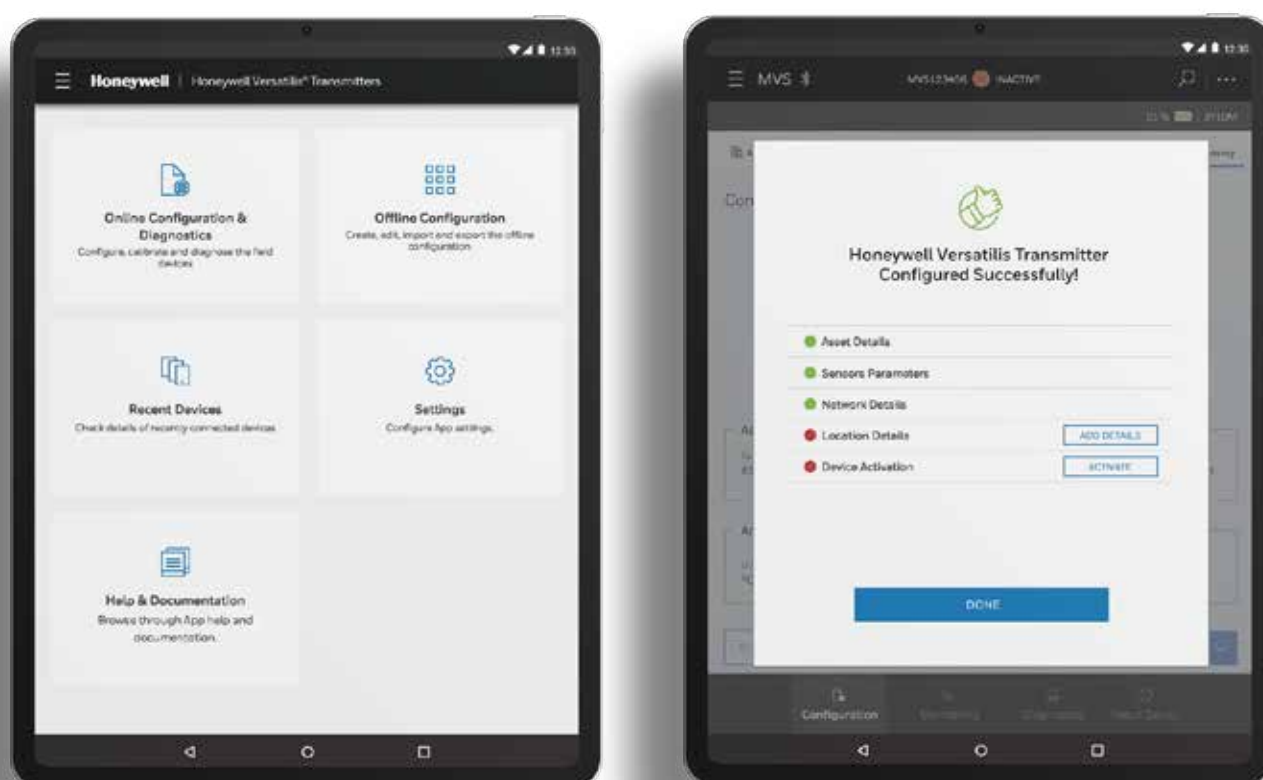
Honeywell Versatilis transmitters help address the cost of rotating equipment failures, over half of which are mechanical.² Asset imbalance, misalignment and bearing related issues are common issues, and when things go wrong, safety, productivity and efficiency all suffer.

Combined with Honeywell or third-party analytics software, Honeywell Versatilis transmitters can help predict these potential failures before they happen and avoid unplanned downtime.

They provide reliable measurements and have the capability to transmit time series and frequency series data. While the time series root mean square of vibration measurements can indicate upcoming equipment trouble, frequency-amplitude changes can indicate a specific part of rotating equipment under stress and even the nature of the stress. It's an early warning for vibration analysts and reliability personnel.

Mobile Configurator Applications

Honeywell Versatilis transmitter can be configured through mobile application tool through Bluetooth® in minutes. The tool can be used to connect, configure, set limits, view live as well as historical data. The configurator application is capable of running on mobile devices and tablets supporting IOS, Android and Windows operating systems.



A RANGE OF ISSUES: ONE SOLUTION

Honeywell Versatilis transmitters can help identify a variety of issues. They include higher vibration amplitudes in the horizontal plane, which indicates potential imbalance issues in the rotating equipment; and higher vibration levels in the axial plane compared with the horizontal plane, possibly indicating misalignment and bent shaft problems. Similarly, a trend showing increasing vibration amplitude can confirm the severity of the faults.

In the frequency series data, meanwhile, if peak values occur at fundamental frequency as well as two, three or four times the fundamental frequency, that will confirm that the issue is real.

Finally, surface temperature trends can help identify potential issues with lubrication effectiveness and potential faults due to pipelines clogging in the case of air-cooling systems.

Honeywell Versatilis™ transmitters provide the data for new insights and visibility of rotating equipment: intelligence that can improve safety, reliability and efficiency, deliver new value for your business.

Source:

¹ McKinsey, "The Internet of Things- Catching up to an accelerating opportunity", November 2021

² IEEE study

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