WESTLOCK CONTROLS

MAGPAC MODULAR SENSOR

THE ULTIMATE SWITCHBOX UPGRADE

www.westlockcontrols.com

WESTLOCK® CONTROLS

Welcome to Westlock Controls, the global leader in valve monitoring and control solutions. For over four decades, we've been dedicated to engineering products that stand the test of time and provide our customers with the diagnostic tools needed for optimal operational performance.

WESTLOCK® MAGPAC

When uptime, accuracy, and long-term durability are mission-critical, the MagPAC bifurcated switch delivers a level of performance traditional mechanical switches simply can't match. With a proven 100 million-cycle life, MagPAC extends service intervals by years in high-cycle applications—reducing maintenance, preventing nuisance failures, and keeping operations running without interruption.

MagPAC gives plants the confidence of precise, always-available valve position feedback, strengthening safety, accelerating startups, and improving diagnostic insight across the process. Its solid-state design and dual Intrinsically Safe and Non-Incendive certifications make it a versatile, drop-in solution for demanding industrial environments.

Integrated into Westlock's AccuTrak and Quantum® platforms, MagPAC transforms proven valve monitoring solutions into high-cycle, long-life performance systems. It's the upgrade that delivers measurable value—greater reliability, fewer interventions, and a smarter, more resilient plant.

KEY FEATURES

- Snap-acting, self-cleaning bifurcated contacts ensure reliable performance in low-power circuits
- Hermetically sealed switch elements deliver complete protection from atmospheric contaminants
- High-visibility LED indicators provide instant local confirmation of switch and solenoid status
- Plug-in terminal design preserves field wiring during upgrades, reducing labor and downtime
- Dual IS/NI certification simplifies specification with one solution for hazardous locations
- Modular, flexible I/O options support a wide range of enclosure and solenoid configurations

MAGPAC MODULAR SENSOR
Integration Made Simple

ACCUTRAK SWITCHBOXES

The AccuTrak series is Westlock's industry-leading switchbox platform, engineered around a c ompact, highly efficient design that brings switches, sensors, terminals, enclosures, and visual indication together in one streamlined unit. This all-in-one architecture delivers exceptional versatility, supporting a wide range of valve types while simplifying installation and operation across the plant.

Built for adaptability, AccuTrak switchboxes perform reliably in diverse industrial environments and meet stringent hazardous-area classifications. Westlock's commitment to safety and compliance ensures every unit supports smooth, dependable operation while aligning with the highest industry standards.

When paired with the MagPAC sensor, AccuTrak switchboxes become an even more powerful solution—extending operational life, improving efficiency, and enhancing safety.

The addition of intuitive LED indication and tool-free diagnostics gives operators immediate clarity and confidence, elevating the entire valve monitoring experience.

QUANTUM® CONTROL MONITORS

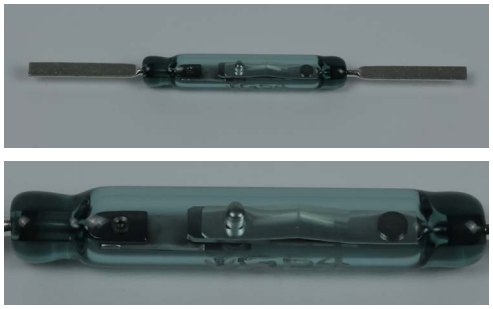
Westlock's Quantum® series brings together the proven valve monitoring capabilities of AccuTrak with integrated control, creating a single, efficient solution for automated valve packages. Quantum Control Monitors streamline installation and operation with a pre-wired solenoid pilot valve available in multiple materials, voltages, coil configurations, and Cv ratings to match the demands of any application.

By incorporating the MagPAC sensor and low-power solenoid valve directly into the switchbox, Quantum delivers faster commissioning, precise actuator control, and enhanced reliability in high-cycle environments. The modular pack adds an extra layer of diagnostic clarity with a built-in visual indicator for the Falcon V solenoid valve, giving operators immediate insight into spool position at a glance.

Together, Quantum and MagPAC create a powerful, unified control and monitoring platform—one that boosts efficiency, strengthens diagnostics, and elevates overall system performance.

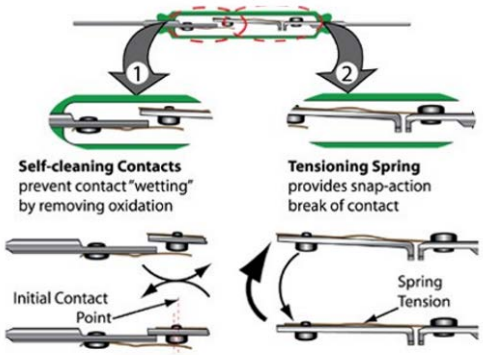
MAGPAC MODULAR SENSOR
Built for Maximum Reliability

BIFURCATED DESIGN: ENGINEERED FOR HIGH CYCLE RELIABILITY



Conventional switches struggle in demanding applications, where in-rush currents, oxidation, and contact wear can lead to sticking, drift, and premature failure.

The MagPAC overcomes these limitations with an advanced bifurcated, snap-acting contact design built specifically for high-cycle, low-power feedback.



Each contact pair delivers strong, decisive break forces that resist in-rush currents from capacitive discharge, ensuring consistent performance even in electrically challenging circuits. As the contacts move, they create a natural self-wiping action that clears oxidation and prevents buildup—maintaining clean, reliable signal integrity over millions of cycles.

Purpose-built for high-capacitance discrete position feedback, the MagPAC's bifurcated architecture delivers the precision, longevity, and dependability that modern automated plants demand.

PROTECTION THAT OUTPERFORMS THE ENVIRONMENT

The MagPAC is built for environments where exposure destroys conventional switches. Its hermetically sealed design creates a complete barrier against moisture, dust, chemicals, and corrosive atmospheres—preserving internal components and ensuring long-term signal integrity.

In harsh applications like chemical processing, high-temperature power plants, and offshore platforms, the MagPAC delivers consistent, uninterrupted performance where traditional switches degrade or fail. By eliminating environmental intrusion, it dramatically reduces maintenance, prevents premature failures, and keeps operations running with fewer interventions.

The result is maximum uptime, lower lifecycle costs, and a reliability advantage that pays off year after year.

MAGPAC MODULAR SENSOR
Enhanced Field Diagnostics

LED CLARITY THAT CUTS THROUGH COMPLEXITY

MagPAC sensors elevate field diagnostics with bright, intuitive LED indicators that give operators instant visibility into switch and solenoid performance. Green and red LEDs confirm valve position, while a yellow LED verifies solenoid voltage at a glance. When paired with Westlock's Engineered Resin enclosure, these indicators remain clearly visible in low-light areas, or even from a distance, making routine checks faster and more reliable.

Integrated with the Quantum® platform, MagPAC adds another layer of diagnostic intelligence: a red mechanical spool indicator on the Falcon V solenoid valve. When energized, the spool shifts and the indicator turns red—providing immediate confirmation of air movement and valve actuation. This simple visual cue dramatically reduces troubleshooting time and eliminates guesswork in the field.

In a typical plant scenario, maintenance teams often spend valuable time opening covers, probing terminals, and tracing wiring to isolate a fault. With MagPAC, diagnostics become visual and immediate. Operators can identify power issues, air supply problems, or actuator faults simply by reading the LED pattern and spool indicator—no tools, no disassembly, no delays.

If the MagPAC's yellow and red LEDs are illuminated but the solenoid's red spool indicator is absent, it signals a likely solenoid issue—most often a loss of air supply caused by a closed valve or a failed coil. In these situations, coil replacement is typically required. Thanks to the MagPAC's service-friendly design, the coil can be replaced without disconnecting any pneumatic lines, allowing maintenance teams to resolve the issue quickly, safely, and with minimal disruption to operations.

If the MagPAC's yellow and red LEDs are illuminated and the solenoid's red spool indicator is present, it confirms that power is available—but the valve itself isn't moving. At this point, technicians can quickly pinpoint the issue by listening for air escaping from the solenoid's exhaust port. If air is blowing out, the problem lies with the actuator rather than the valve, allowing the team to move directly to the correct component for troubleshooting and repair.

If the MagPAC's yellow and green LEDs are illuminated and the solenoid's red spool indicator is present, it confirms that the system is operating exactly as intended. The yellow and green LEDs verify proper voltage and valve position, while the red indicator shows the solenoid is shifting correctly. Together, these signals give operators immediate assurance that all components are functioning normally, supporting smooth, efficient, and uninterrupted plant operation.

MAGPAC MODULAR SENSOR
Location Versatility & Service

DUAL CERTIFICATION: ONE SWITCH FOR HAZARDOUS ZONES

The MagPAC delivers true operational freedom with dual Intrinsically Safe (IS) and Non-Incendive (NI) certification, allowing a single device to be deployed across multiple hazardous areas.

This versatility eliminates the need to stock and manage different switchboxes for different classifications, cutting complexity, reducing inventory costs, and minimizing the risk of installation errors.

With IS protection for the highest-risk environments and NI approval for areas with intermittent exposure, MagPAC ensures safe, compliant operation wherever it's installed.

Plants gain a unified solution that simplifies procurement, streamlines maintenance, and supports seamless integration across the entire facility—turning one switch into a powerful standard for safety, consistency, and efficiency.

PLUG & PLAY DESIGN: FASTER SERVICE, ZERO REWIRING

MagPAC's plug-in terminal strip transforms maintenance into a quick, error-free process. Field wiring stays exactly where it is—even during service or replacement—eliminating the need to remove wires, retighten screws, or rebuild connections.

A simple pull-and-plug action gets the unit back online in minutes, reducing labor, preventing wiring mistakes, and keeping your operation running without interruption.

THE ULTIMATE SWITCHBOX UPGRADE

The MagPAC modular sensor represents more than an evolution in valve monitoring—it marks a new standard for what modern plants should expect from a switch pack.

With its dual certification, advanced diagnostics, sealed reliability, and effortless plug-and-play design, MagPAC delivers the clarity, safety, and performance today's industrial environments demand.

As you move toward smarter, more connected operations, trust Westlock Controls to provide the technologies that keep your plant running with confidence. The future of valve monitoring is here—and it starts with MagPAC.

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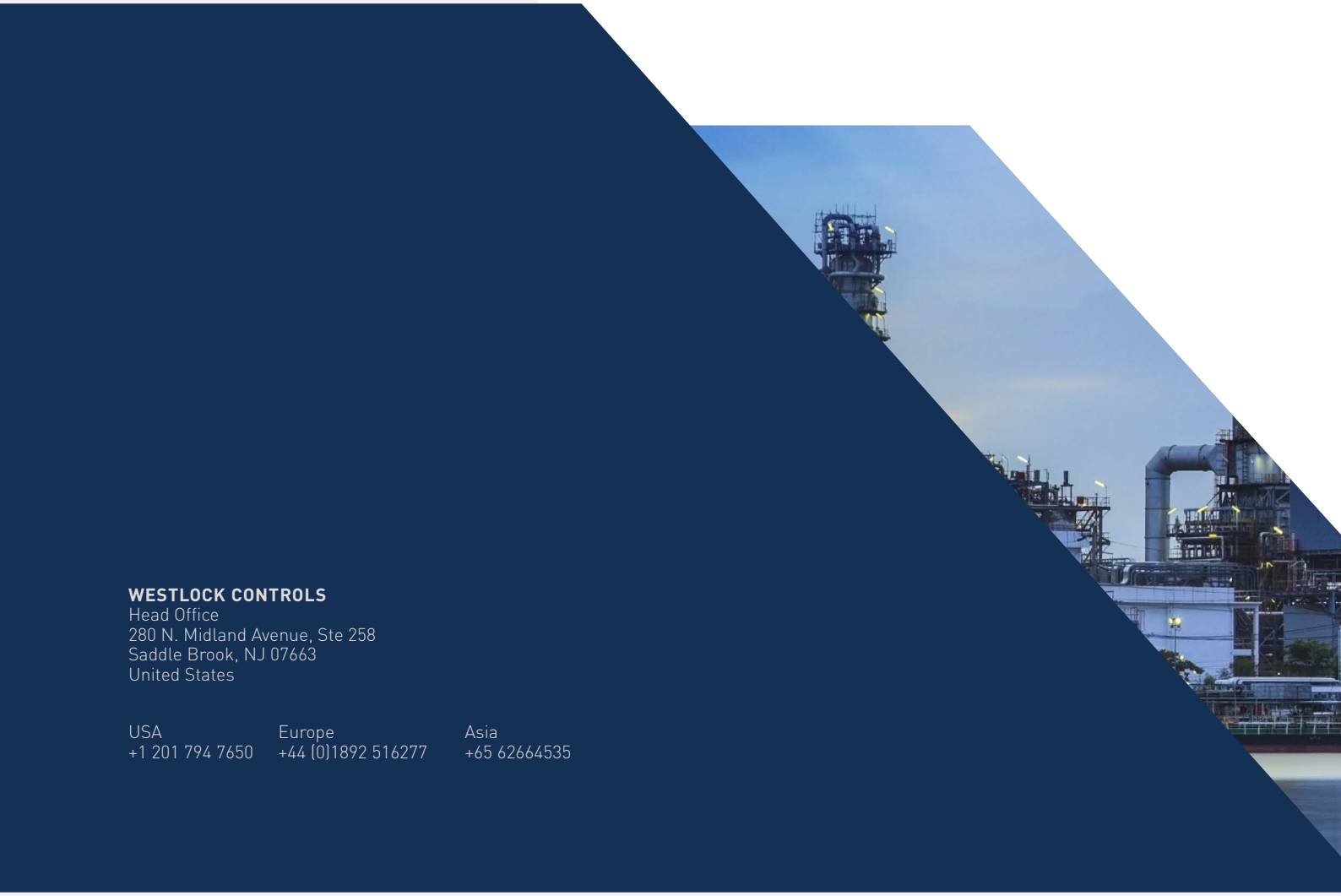

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