



BUILDING TRUST IN THE FIELD: A PRACTICAL GUIDE TO AUTOMATED GAS DETECTION WORKFLOWS

Reducing shift-start delays, simplifying compliance, and improving worker confidence without adding complexity.

Honeywell

FROM MANUAL PROCESSES TO CONFIDENT OPERATIONS

Gas detection programs are often built around devices, but the real challenges happen between devices; shift change, before entry, during compliance checks and when reports are due. Manual steps with disconnected tools and inconsistent processes slow teams down and create unnecessary risk.

The Honeywell Flex 5 Series was designed to address these gaps. Rather than focusing on individual features, it takes a workflow-first approach, helping teams prepare faster, work with confidence in the field, and close out jobs with predictable compliance.

Built on the proven BW Flex platform, this next evolution reflects real-world feedback from confined space workers,

surveyors, technicians, safety officers and managers, roles that depend on clarity, speed and trust every day. Paired with Honeywell Safety Suite 2.0, Flex 5 extends beyond detection, delivering fleet, worker safety, and compliance insights through a flexible software platform.

A practical, experience-driven approach to gas detection that supports how work actually happens.



WHAT BETTER WORKFLOWS UNLOCK

OPERATIONAL EFFICIENCY

Work Faster. Spend less time on setup and reporting.

Many safety teams lose hours each week to repetitive, manual steps: preparing devices, tracking inventory, assigning users and compiling reports. These steps don't improve safety, but they do slow operations and strain already limited resources.

The Flex 5 Series ecosystem is designed to remove friction from these processes, helping teams move from manual effort to predictable workflows that scale across shifts and sites. Fleet insights from Safety Suite 2.0 help teams reduce manual steps and improve readiness across shifts and sites.

Faster readiness, fewer repeated tasks, and more time spent on productive work.

WORKER EXPERIENCE

Simple, clear, confident.

In the field, workers don't want to troubleshoot equipment. They want information they can trust, delivered clearly, quickly and without distraction, even in noisy or high-stress environments.

By simplifying interactions and reducing cognitive load, the Flex 5 ecosystem supports confident decision-making at every stage of the job. Worker safety insights provide visibility into usage and exposure trends, supporting confident decision-making without added complexity.

Less confusion, fewer interruptions, and greater confidence during critical tasks.

SAFETY AND SECURITY

Reliable Protection, always

Compliance shouldn't depend on memory, paper logs, or best intentions. When safety data is captured automatically and processes are consistent, teams can focus on protecting workers, while still being ready to prove compliance when needed. Customizable compliance tools in Safety Suite 2.0 help make sure data is audit-ready and aligned to organizational requirements.

Reliable protection in the field, with audit-ready data without extra work.



BEFORE & AFTER: DEVICE CHECKOUT & READINESS

Where time is lost before work even begins

In many operations, the workday doesn't start at the job it starts in the equipment room. When readiness depends on manual checks, separate systems and paper tracking, delays and missed steps become routine. Technicians feel pressure to move quickly, while workers just want a device they can trust before entering a hazardous area.

Before: Manual, Time-Consuming, Error-Prone

1. Manually check if gas detectors are charged
2. Power on each device individually
3. Conduct a bump test or calibration (often skipped if rushed)
4. Manually assign devices to users
5. Keep paper or spreadsheet records of device allocation
6. Manually determine remaining inventory
7. Collect returned devices and prep for the next shift
8. Repeat the process every shift



With the Flex 5 Series Ecosystem: Automatic and Seamless

1. Instantly see available detector inventory
2. Devices are charged and ready to go
3. Devices update and sync automatically
4. Streamlined device check-out from inventory
5. Tap or swipe to allocate a device to a user
6. Docking initiates automated bump/calibration and data download

Faster start of work, fewer missed steps and less frustration at shift change.

BEFORE & AFTER: DAILY USE, MONITORING AND COMPLIANCE

Visibility without added burden

During the shift, many devices operate in isolation. Supervisors have limited visibility, and compliance depends on manual processes that are difficult to maintain consistently, especially across large teams or multiple sites.

Before: Disconnected and Hard to Prove

1. Devices operate independently
2. Little to no visibility during the shift
3. Compliance relies on paper logs or manual downloads
4. User assignments tracked manually
5. Inventory status determined after the fact



With the Flex 5 Series Ecosystem: Built-in and automated

1. Automatically captures usage, gas exposures, and events
2. Data syncs when devices are docked or connected
3. Records are available automatically for audits and reviews

Compliance without added work. No paper logs, fewer manual steps and data that's ready when needed.

BEFORE & AFTER: END OF SHIFT, RETURN AND REPORTING

Closing the Loop without Delays

End of shift processes can often introduce delays and errors. Data is downloaded later, reports take time to assemble, and issues are discovered after the fact, when it's harder to act.

Before: Manual closeout and delays

1. Return detectors to the charging area
2. Manually check in each device
3. Perform separate data download steps
4. Manually generate reports
5. Data becomes available later
6. Errors discovered after the shift



With the Flex 5 Ecosystem: Closed Loop by Design

1. Returning devices to the cradle triggers automatic check-in
2. Automated bump/calibration and data transfer
3. Reporting available immediately
4. Fleet KPIs visible without extra steps

Faster turnaround, better fleet visibility and predictable compliance.



HOW DIFFERENT ROLES EXPERIENCE THE DIFFERENCE

CONFINED SPACE WORKER

Confidence Under Pressure

Confined space work demands absolute clarity: the space must be cleared before entry, conditions monitored continuously and rapid help must be available when something goes wrong. Communication can be unreliable with little tolerance for uncertainty.

The Flex 5 ecosystem supports faster pre-entry readiness, dependable monitoring during the task, and reliable event capture, even when connectivity is limited.



Greater confidence during the high-risk work, not just compliance on paper.

SURVEYOR

From Fieldwork to usable records

Surveyors often spend as much time documenting work as performing it. Manual notes, deployed uploads and disconnected records slow analysis and reporting.

A workflow-based approach helps surveyors focus on measurement while helping make sure readings are consistently captured and available for comparison over time.



Less time rebuilding reports. More time identifying trends.

TECHNICIAN

Throughput without shortcuts

Technicians are responsible for readiness across fleets, shifts, and sites. Manual processes increase workload and introduce variability.

By reducing repetitive tasks and simplifying service workflows, the ecosystem helps technicians keep fleets ready without added pressure.

Higher throughput, fewer interruptions and more predictable service cycles.



SAFETY OFFICER

Confidence in Compliance

Safety officers need assurance that procedures were followed and proof when audits occur. Manual systems make this harder than it should be.

Automated data capture and consistent workflows help turn compliance into a byproduct of normal operations.

Stronger oversight with less administrative burden.

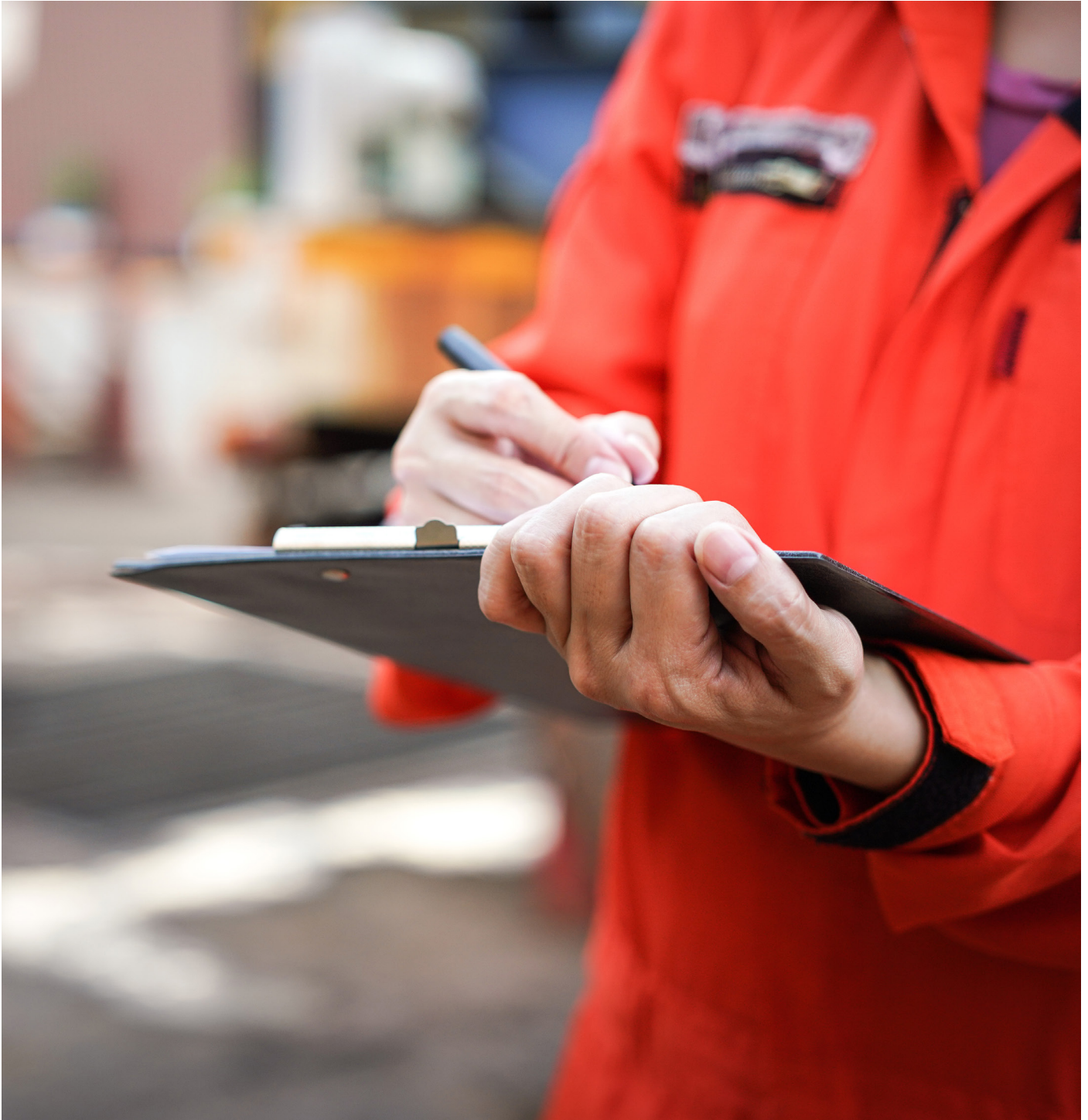
MANAGER

Standardization that Scales

Managing multiple sites, teams, and requirements often means balancing flexibility with control.

A platform-based approach supports standardization while still adapting to different applications.

Simpler programs, lower friction, and better use of resources.



USE CASE SPOTLIGHT

CONFINED SPACE

When “always connected” isn’t realistic

Confined space operations require clearance before entry, continuous monitoring during work, and dependable escalation when something goes wrong. In practice, constant connectivity isn’t always available or necessary.

Designed for the realities of confined space work, the Flex 5 ecosystem emphasizes readiness and dependable event capture, supporting safer decisions and faster response without forcing always on connectivity. With support for up to six gases through configurable sensor options, Flex 5 enables teams to standardize on one platform while still addressing diverse risk profiles.

Protection that works where the conditions are tough.

SURVEYING AND LEAK DETECTION AND REPAIR (LDAR)

Surveying often involves repeating the same process dozens of times: measuring, recording and later rebuilding that day’s work into a report.

A workflow-driven approach helps make sure measurements are captured consistently and tied to assets, creating a usable record without extra effort at the end of the day.

More usable data, less administrative time.

A SYSTEM APPROACH, NOT MORE COMPLEXITY

Designed to support work, not disrupt it

The Flex 5 ecosystem focuses on automating the most time-consuming and error-prone steps: assignment, readiness, data capture and closeout, without forcing teams to change how they work.

It’s not about adding tools. It’s about removing friction.

Consistency across shifts and sites, without added complexity.

A better way to work, built on trust.

The Flex 5Ecosystem is built to help teams work faster, feel more confident and protect workers, without relying on manual effort or disconnected processes



For more information

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