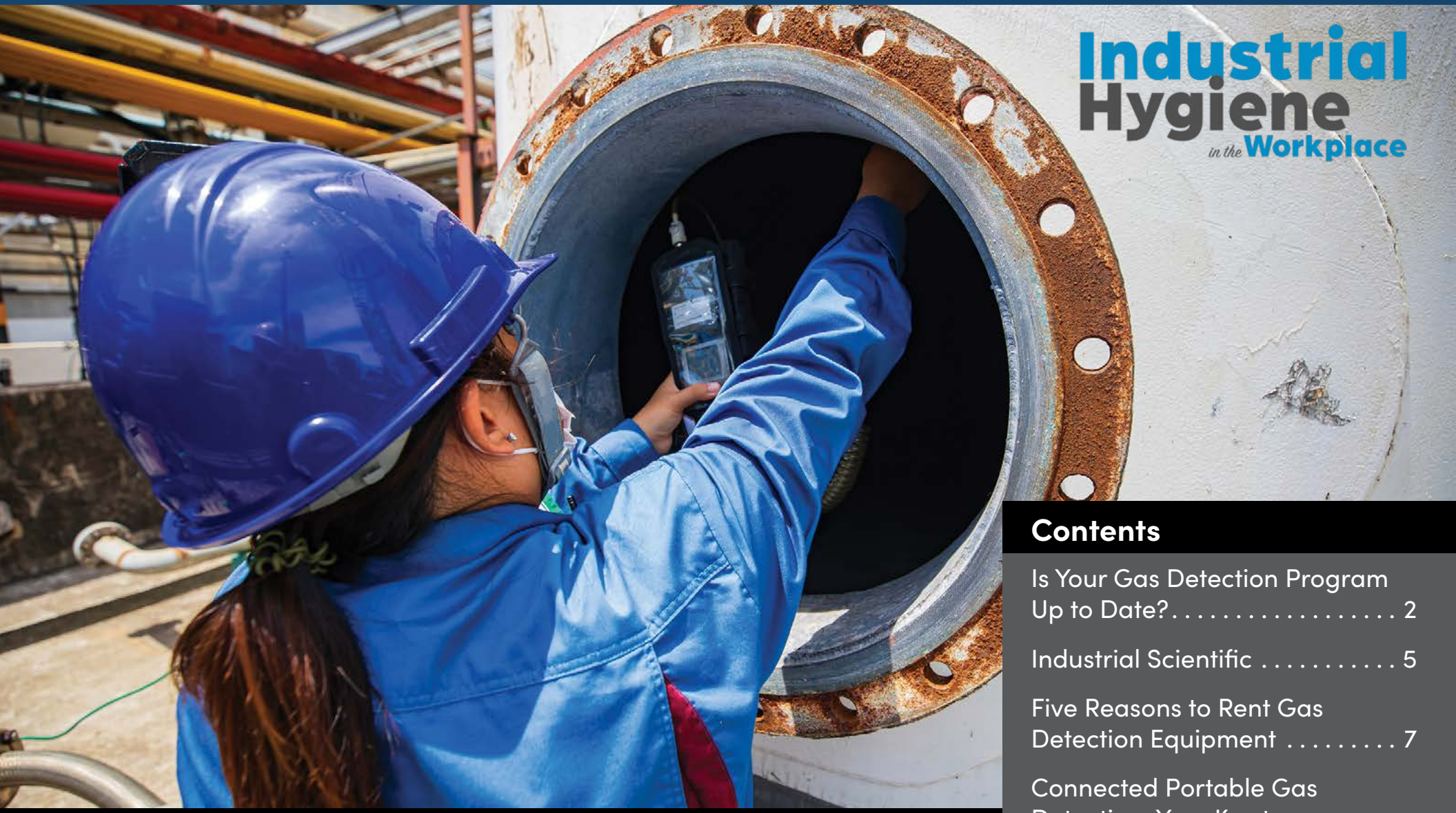

Industrial Hygiene in the Workplace

Gas Detection

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By: **Dave Wagner**, *Contributor*

Is Your Gas Detection Program Up to Date?

Workplace safety is constantly evolving, especially in fast-moving industrial environments. Thanks to technological advancements, what was considered safe 10 or 20 years ago often doesn't hold up to present-day safety standards.

This is especially true for gas detection systems. While up-to-date gas detection systems cannot eliminate every safety challenge, when paired with proper training, they can make your site significantly safer for workers. If you are on the fence about upgrading your gas detection program or don't know if your system is up to date, consider this comparison of traditional vs. cutting-edge gas monitoring systems.

Traditional Gas Detection Systems No Longer Cut It

Gas detection hardware is built to handle the wear and tear of industrial environments, so it is fairly common to see personal monitors and area gas monitors that are 10 or 20 years old and still functioning. Safety supervisors may be thrilled to see that their investment was worth every penny and has stood the test of time, but there is always a point where the pennies stop adding up and your outdated tech begins costing your company.

When reviewing your gas monitoring program, one of the first things to look for is whether your devices have up-to-date firmware or if the monitors are still running their original firmware. Why should you care? Manufacturers offer firmware updates to fix a bug that you might not have noticed or to add important capabilities. If your gas detectors are no longer receiving firmware updates, you've reached the first and most important sign that it's time to upgrade before out-of-date equipment puts your workers at risk.

Older gas detectors are also more likely to experience sensor issues, leading to inaccurate calibration or even bump tests. Carrying a monitor with failing sensors can give your workers a false sense of security that may prove even more dangerous than not carrying a monitor at all.

Sticking with an outdated gas detection system also limits you in several other ways:

1. Manual Processes

You would never overlook efficiency and productivity at your site, yet you might be doing just that by sticking with an old gas monitoring system. Outdated gas detection systems often rely on time-consuming, manual processes that can be automated with the standard technology in newer gas monitoring systems. Speed and accuracy are critical for maximizing your return on investment (ROI), but these two factors also play a significant role in worker safety—as every second counts when there are hazards present.

Gas monitors are fundamental to worker safety, because they constantly monitor gas exposure and warn workers when levels become dangerous—equipment failure in the field can make the difference between life and death. That's why it's crucial to keep your gas monitors in the best possible shape with regular maintenance and management. With such high stakes, manual maintenance can have serious limitations.

Manually marking instruments with due dates and manually tracking event logs, data records and calibration gas status is time-consuming and subject to human error—or even shortcuts by employees. The larger your fleet of gas detectors, the longer this process takes and the more valuable man hours you lose in the process.

2. Clunky Software

Advancements to hardware may initially seem more obvious, but the software that newer devices run is just as important. Think about it: if you've ever used an old computer or smartphone that's a few years old, then you understand the difference software improvements can make. When it comes to software, something that's just a few years outdated can suddenly feel like a relic from the Stone Age.

The same is true when it comes to outdated gas detection systems. Older designs may be unintuitive or unresponsive, not to mention much slower at detecting hazardous gases. Workers cannot afford to contend with clunky, unresponsive software when they are performing dangerous work in a hazardous environment. You wouldn't bet your life on a phone that's 10 to 20 years old, so you shouldn't do the same with your gas detection system.

3. Lack of Visibility

Do you know where all your workers are at any given time? Do you know which worker was exposed to hydrogen sulfide and who had a health emergency and triggered their panic alarm? Outdated gas monitors limit your ability to share valuable data and alarms between workers and their response team or safety managers. Without real-time visibility into the status of your workers, you're essentially driving blind.

It's useful to think about gas monitors as one piece of a larger safety system at your workplace, rather than equipment used by individual workers who are solely responsible for their next steps if a hazard is detected. While no visibility was simply the status quo for many decades, new connected safety solutions offer significantly more visibility into your locations and workers, so you can have their backs when they need it—even if they are miles away.

What is a Connected Gas Monitoring System?

A connected gas monitoring system uses flexible connectivity options, like peer-to-peer, Bluetooth, wi-fi, LTE-5G, 4G, satellite and more, to join personal gas monitors and any area or fixed gas monitors with software tools that make your job easier. Connected safety programs can include device management data, real-time hazard data and analytics insights to give you control over your company's safety and productivity from anywhere.

With a platform approach to gas detection, you can easily and quickly harness the power of the data your gas monitors collect to respond faster during emergencies; cut down manual processes; notice patterns in safety incidents; and proactively reduce risks.

What You Gain by Upgrading

New gas detection systems that use connected safety technology offer significant benefits over traditional gas detection systems:

A simple communication network with peer-to-peer communication can connect all personal and area gas monitors at a site to enhance team-based safety. *(photo courtesy ISC)*

1. Automated Processes

Safety managers know the pain of handling piles of paperwork from gas detection records. Even with a good manual system in place, it's tedious to track regulatory compliance; identify hazards workers are exposed to on-site; and provide historical data when incidents do occur. Add to that the fact that these records don't contain key information, like the name of the worker exposed or where the exposure took place, and it's like solving a mystery every time you review your data.

Gas detection management software eliminates these challenges by helping you identify hazards and manage compliance. With one simple dashboard, you can easily manage your people and equipment while collecting key data about gas hazards on your site.

Some of the key information you can access in these management systems can include equipment status, bump test and calibration reports for streamlined auditing, and alarm trends by time, length and user. The efficiency you gain by implementing modern gas detection software is great for the company's budget and even better for your workers' safety.

2. Instrument Management

Maintaining gas monitors regularly makes the difference between life and death. Bump tests and calibrations, instrument repair and safety records are all key to proper gas detection management, but many businesses struggle with them. This is because traditional approaches tend to be hands-on and labor-intensive.

That's why a comprehensive maintenance subscription service is so valuable. You can let the experts handle your gas detector maintenance and repair, shipping, calibration gas, docking stations, training and more—freeing you up to make safety decisions and focus on other priorities. You can automate regular maintenance, like bump tests and calibrations, with the click of a button and generate safety records and certificates in seconds.

To make your life even easier, some maintenance subscription services automatically track monitor performance sensor function, shipping you a new instrument immediately as soon as one of yours starts to decline, so you're never left with frustrating troubleshooting or the task of finding spare monitors in a pinch.

3. Improved Worker Communication

It's no longer sufficient for employees to carry personal gas monitors at all times. New technologies connect entire teams of workers, sharing alarms between devices and alerting everyone to dangerous gas levels. When time is critical and communication is key, instant alarm sharing is a literal lifesaver.

A simple communication network with peer-to-peer communication can connect all personal and area gas monitors at a site to enhance team-based safety. Everyone will instantly know who is in trouble and why, so workers can make smarter, faster, safer decisions. Peer-to-peer wireless communications also create a dependable, self-healing mesh network with minimal setup and no IT involvement, ensuring workers are connected even if a few units drop off.

4. Real-Time Visibility

Every aspect of a connected safety program is designed to give you real-time visibility into your site and workers, so you can take the right action at the right time.

Live monitoring software gives you real-time text, email or onscreen alerts every time a worker is exposed to dangerous gases on your site. You can see this activity on a map that highlights the location and condition of each worker, so you always have total visibility into the safety of your workers. Real-time worker status updates eliminate manual check-ins, so workers can focus on the job. With all this information at your fingertips, you can save time in emergencies and make sure your workers get the help they need.

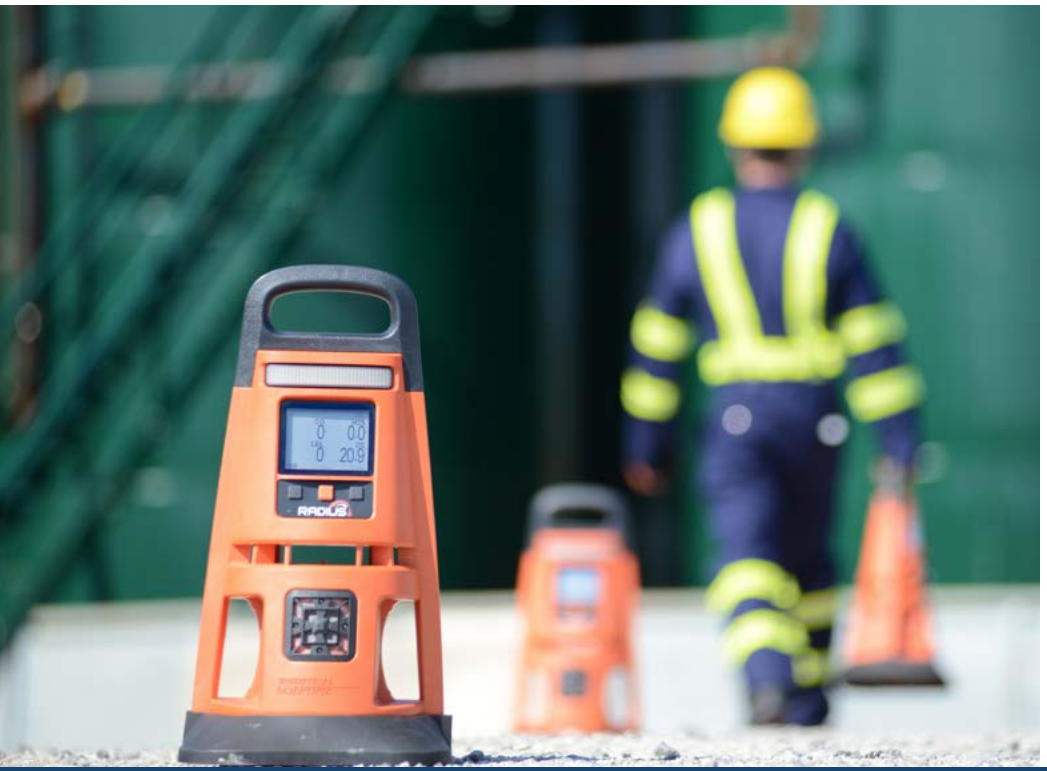
However, you can't always be available to respond to worker alerts. When that's the case (especially for lone workers and workers in different time zones or locations), there are also real-time monitoring solutions. With services like 24/7 professional monitoring, you can rely on agents to escalate incidents according to a custom response plan around the clock. When an alarm is triggered on a worker's gas detector, an agent will pursue the alert until it's resolved. You can ensure your workers get the help they need, even when you can't be there.

Overall, by building up a safety program that fits your needs and works together as a complete system, you can better protect your workers from gas hazards on the field while reducing time spent on mundane tasks, like routine maintenance and compliance reporting paperwork. You can scale a gas monitoring system to fit your team's needs and empower your company to streamline operations and build a strong strategy for continuous safety improvements.

Industrial Scientific

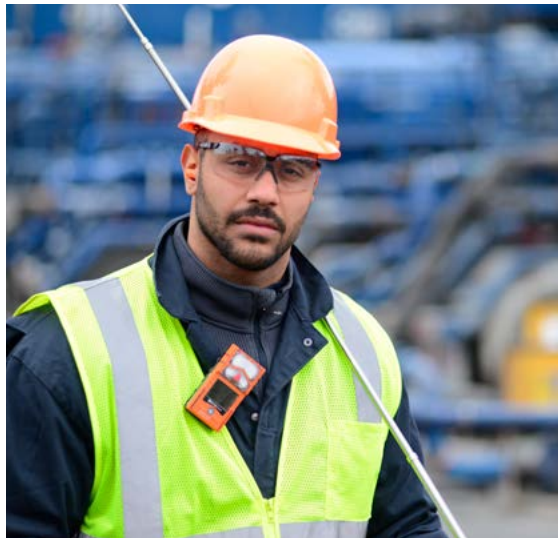
Industrial Scientific is a leader in providing gas detection products, services, and solutions to keep workers safe in hazardous environments on, above, and below the earth. At any given time, hundreds of thousands of people are betting their lives on the work we do as a company. That's why each day, our 800 employees around the world are working to achieve our vision of ending death on the job by 2050. This was our foundation in 1985 and still guides how we do business today. We don't let anything out of our factories that we wouldn't bet our own lives on.

At Industrial Scientific, we are pioneers in gas detection – creating the first 3-gas detector, 6-gas detector, wireless gas detector, and even the first gas detector to be included on a NASA space shuttle. We provide reliable single-gas, multi-gas, and area monitors to detect gases in potentially hazardous environments, as well as a variety of accessories and tools to maintain our instruments and adapt them to different applications. We also go beyond gas detection devices to include iNet® Exchange, a full-service gas detector replacement and repair program; iNet Control, a data management tool to make smarter decisions long-term; and personalized training so customers can make the most of their gas detection program.



However, we know that gas detection and data analysis alone will not prevent all workplace injuries or deaths. Because of this, we continue to innovate, using the latest technology to connect workers and design the future of safety solutions that will help end workplace fatalities in our lifetimes. LENS® Wireless, our team- and site-based safety solution, allows connected Ventis® Pro5 Personal Gas Monitors and Radius® BZ1 Area Monitors to share real-time panic, man-down, and gas alarms with peers, improving awareness of what's happening nearby. Our iNet® Now Live Monitoring software provides instant visibility into worksites miles away, for in-the-moment safety updates that can make the difference between life and death. At the same time, the location technology in our iAssign® Beacons and iAssign® Tags takes data beyond the "what" to tell you who was exposed and where, while also alerting workers when they're entering a restricted and dangerous area.

Connected safety brings workplace safety into a world where decisions are based on live data – not just instincts. Our vision of connected safety is more than instantly connecting a lone worker to the help he needs. It includes man-down alerts, tank farm monitoring, muster point management,



confined space entry, heat mapping, and more. It's about being a trusted partner that understands safety across the entire enterprise, offering a connected solution for every application you'll encounter

All of these innovations work together seamlessly to provide individuals and organizations with a connected safety solution so workers can make safe, informed decisions that will get them home at the end of each day. We can't think of any cause more important than that and are proud to dedicate our careers to this mission.

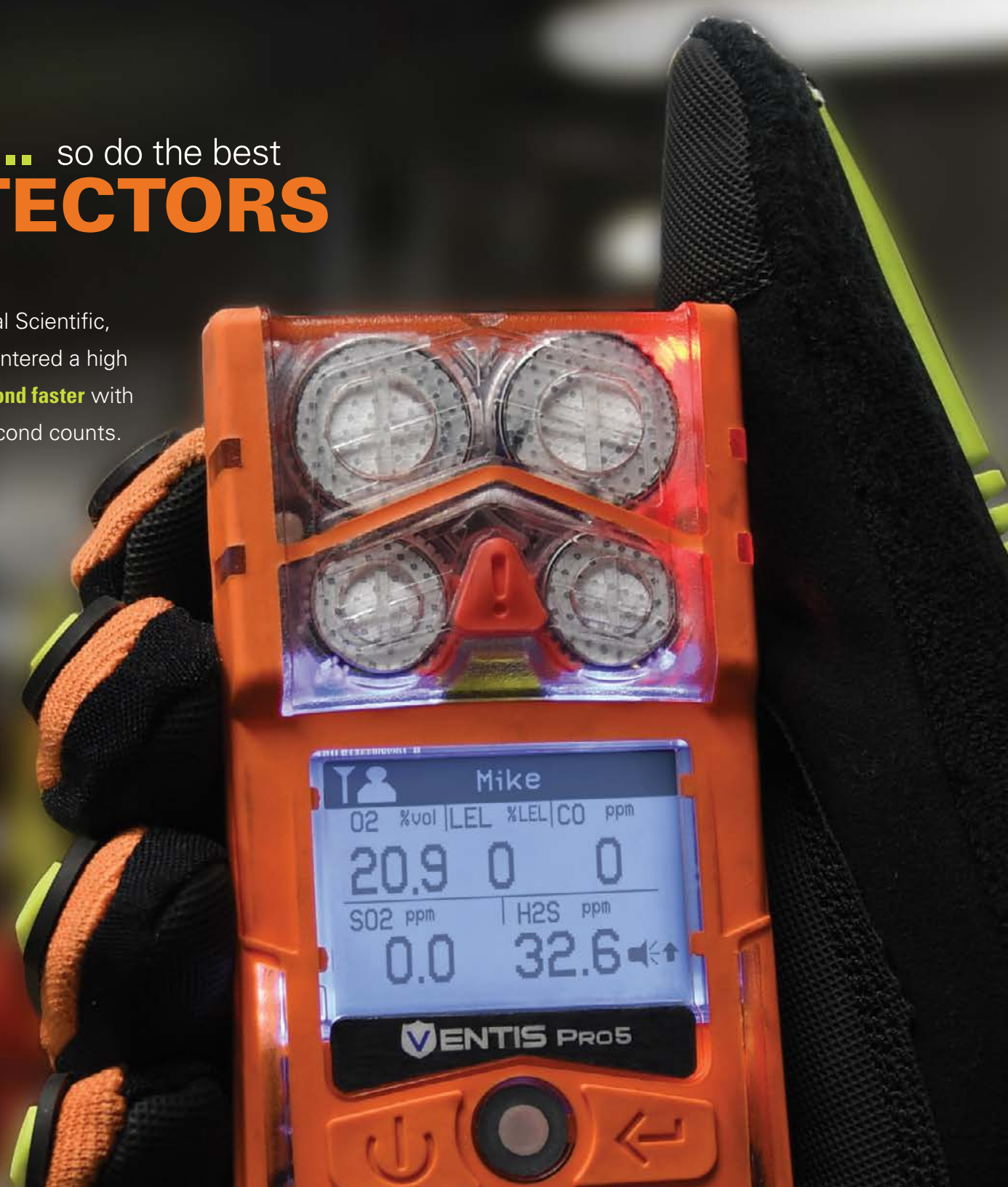
Learn more at https://hubs.ly/Q02sKTkf0.

The best teams

COMMUNICATE... so do the best GAS DETECTORS

With the **Ventis® Pro5** from Industrial Scientific, Mike's teammates will know he's entered a high H_2S environment, so they can **respond faster** with more information—when every second counts.

See it in action



INDUSTRIAL SCIENTIFIC

By: **Jason Wright**, *Contributor*

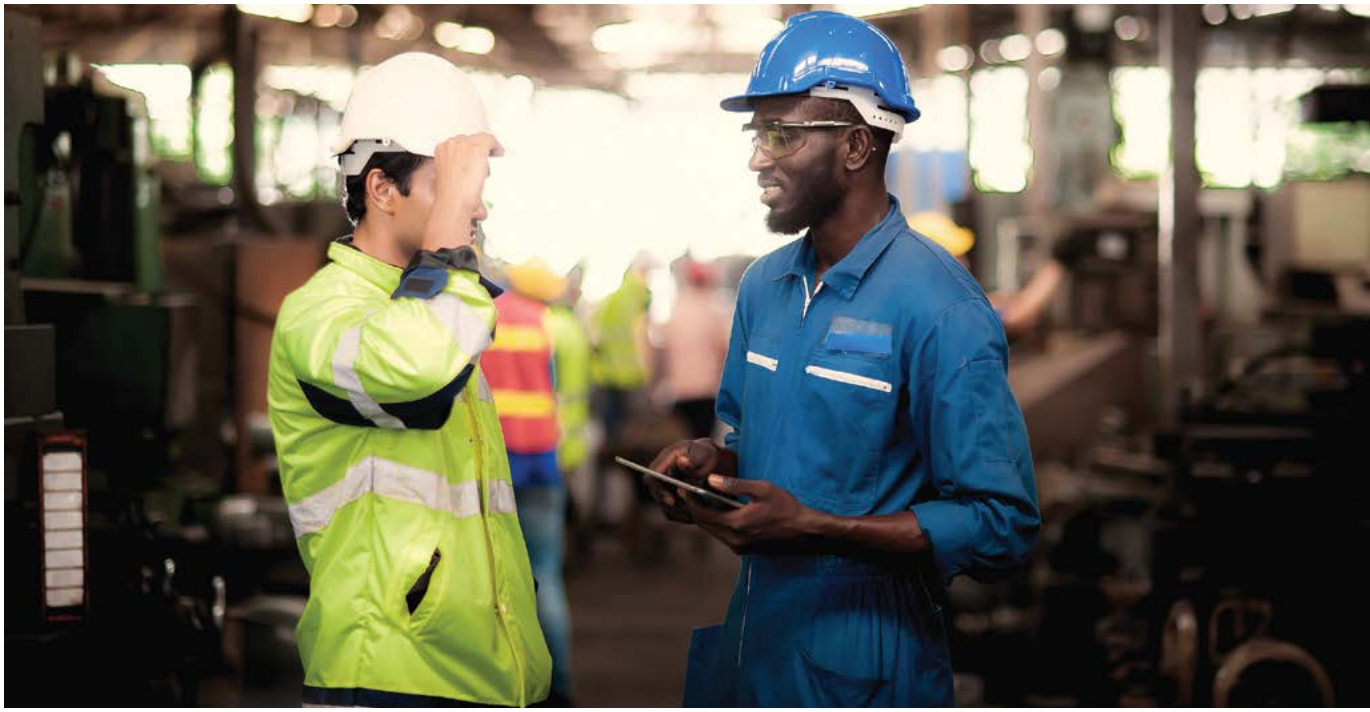
Five Reasons to Rent Gas Detection Equipment

As the year kicks into high gear, your facility might have to perform a shutdown or turnaround. It can be extra challenging to maintain safety standards during shutdowns due to disruptions to standard routines, extra workers on site and atmospheric hazards that you might not normally encounter—including oxygen deficiency and combustible or toxic gases.

Whether your team has planned for an upcoming turnaround, outage or shutdown, or whether it's unexpected, evaluating your gas detector fleet and making sure that you have all the equipment you need for the project—from beginning to end—is essential. However, most companies don't keep enough gas detectors on-hand for the influx of workers.

Renting gas detection equipment is the most efficient way to quickly obtain the safety equipment you need to ensure team safety, hazard visibility and more.

Here are five reasons you should consider renting gas detectors this year:



Whether your team has an upcoming turnaround, outage or shutdown, or whether it's unexpected, evaluating your gas detector fleet and making sure that you have all the equipment you need for the project is essential. *(photo courtesy Adobe Stock Images)*

1. Save Money

Get the equipment you need at a fraction of the price. With rental gas detectors, you can protect your team without committing to the long-term expenses or responsibilities associated with purchasing.

Alternatives to renting, like expanding your fleet with new devices or purchasing disposable gas monitors, have hidden expenses that cost you more in the long run. If you only plan to use the spare gas monitors for special projects, it doesn't make sense to budget for the large capital expense of purchasing or maintenance costs throughout the year.

2. Quick Delivery

Get back up and running more quickly during unexpected events. In most cases, the gas detectors you need can be readied and delivered the very next day. This is ideal for shutdowns that may arise immediately. You don't need to delay the job or sacrifice worker safety, if rentals arrive at your facility as soon as you need them.

3. Flexible Rental Terms

You can't always predict how long you'll need spare equipment. Shutdowns and turnarounds can last anywhere from a few days to months, and your plans might change as the project progresses. For that, you need a flexible timeline to ensure workers are always protected.

4. Variety to Fit Your Unique Application

Suppliers can carry all the equipment you need for your turnaround or unique application—from personal monitors to an area monitoring system with peer-to-peer wireless communication and live monitoring software. Some companies even offer full accessory lines that include probes, spare battery packs, docking stations and other parts, so you have the right equipment for any application—rather than relying on a one-size-fits-all solution.

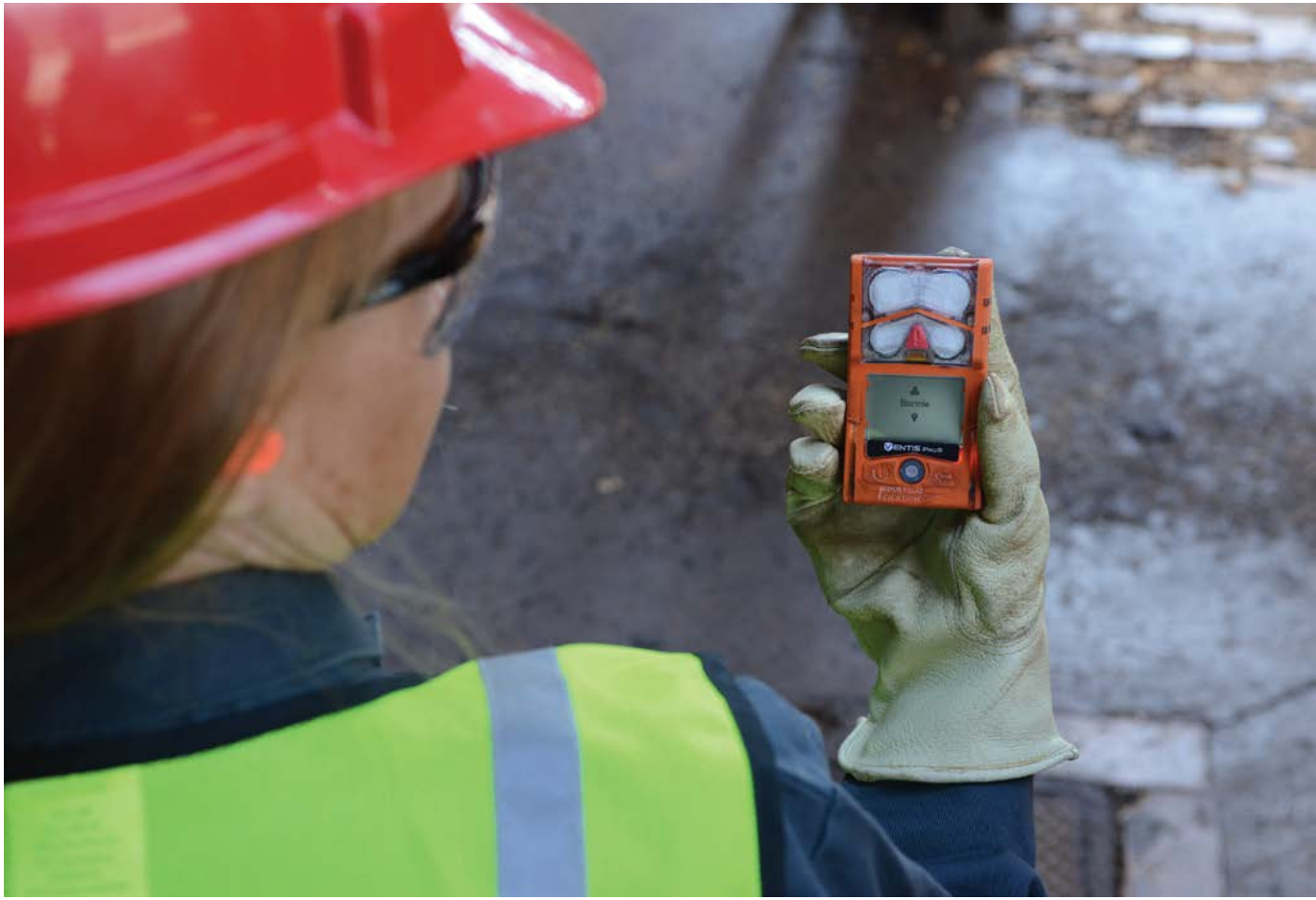
5. Ready-to-Use Monitors

When your team is jumping into a special project, especially an unexpected one, their time is valuable. Rental gas monitors arrive pre-calibrated and come with calibration certificates, so you can count on their accuracy without adding another task to anyone's to-do list. Some personal and area monitors can easily connect to one another for peer-to-peer alarm sharing and live data-monitoring — without IT set-up—so workers can clock in knowing their gas detectors are ready to go.

What to Ask Before You Rent

Now that you've explored the five reasons why you should consider renting gas detection equipment, it's important to understand that not all gas detector rental programs offer the same benefits. If you do plan on renting, be sure to scope out the project and ask the right questions, including:

- **When does the rental period start, and when does it end?** Some rental companies start the clock the day the equipment leaves their facility; others start it the day it is received. The length of the rental depends on the company you rent from; however, some companies are also flexible about extending rentals, which means you don't need to rush projects to fit your rental period.
- **What is included with the gas detectors?** For example, if you're getting a monitor with a rechargeable battery, ask if the charger will be included.
- **What gas detector accessories would be ideal for a given application?** Ask the rental company about accessories that might make the job easier and safer. For example, in confined spaces, specific tubing and probes are required compared to other gas detection applications.
- **Do I need to pay for sensors that fail while in use?** Some rental companies make up the internal expenses of maintaining their rental fleet by charging customers for sensors that fail while in use, even if the sensors fail due to normal use.
- **Are the monitors pre-calibrated?** Ask to have calibration certificates provided with each rental unit.



Many companies don't keep enough gas detectors on-hand for the influx of workers. Renting gas detection equipment is the most efficient way to quickly obtain the safety equipment you need to ensure team safety, hazard visibility and more. *(photo courtesy ISC)*

Whether you're preparing for your upcoming turnarounds and shutdowns, or face an unplanned emergency, make sure you have the equipment you need to protect every worker on-site without worrying about maintenance or committing to a purchase. Renting your gas detection equipment is the most efficient way to quickly obtain the safety equipment you need to ensure team safety, hazard visibility and more.

MSA The Safety Company

Connected Portable Gas Detection:

Your Key to Help Enhance Safety and Productivity

Does safer work mean slower work? It certainly doesn't have to. With the benefits of connected work for your gas detection program, you can help enhance safety as well as productivity. Connected work programs can allow you and your team to make more efficient and productive use of your time and resources.

Put simply, connected work means linking your workers, worksites, and workflows together via wireless connectivity to a cloud-based software platform.

Advantages of a connected gas detection program include enhanced visibility of workers across locations, accountability and digital device assignment, and streamlined, automated reporting for simplified compliance. In addition, connected programs gather powerful data which can be harnessed to help improve operational efficiency.

HERE ARE FIVE WAYS IN WHICH CONNECTIVITY CAN HELP MAKE YOUR ORGANIZATION MORE PRODUCTIVE.

1. Data and Insights

Get deeper insights into your operation with the generation of critical data points about off-site workers and your fleet of detectors. This enables you to optimize deployment of your assets and to identify areas for safety training, common trends across events, and opportunities for efficiencies and possible cost reduction. Improved practices also help reduce safety incidents – along with their related downtime and productivity losses.

2. Incident Analysis

Information on important factors involved in an incident can be easily gathered and correlated from all parts of the connected system, which helps in identifying and understanding root causes. Systematic analysis forms a sound basis for making process changes to help reduce future risks.

3. Process Automation

Processes such as manual preparation of reports can be time-consuming and cumbersome, as well as potentially prone to errors. With a connected gas detection program, reporting and documentation are digital and automated, helping to streamline processes and drive accuracy. Managers can produce a usage report for a device or location in minutes, leaving your team with more time to focus on putting data insights into practice and optimizing productivity.

4. Asset Management and Maintenance

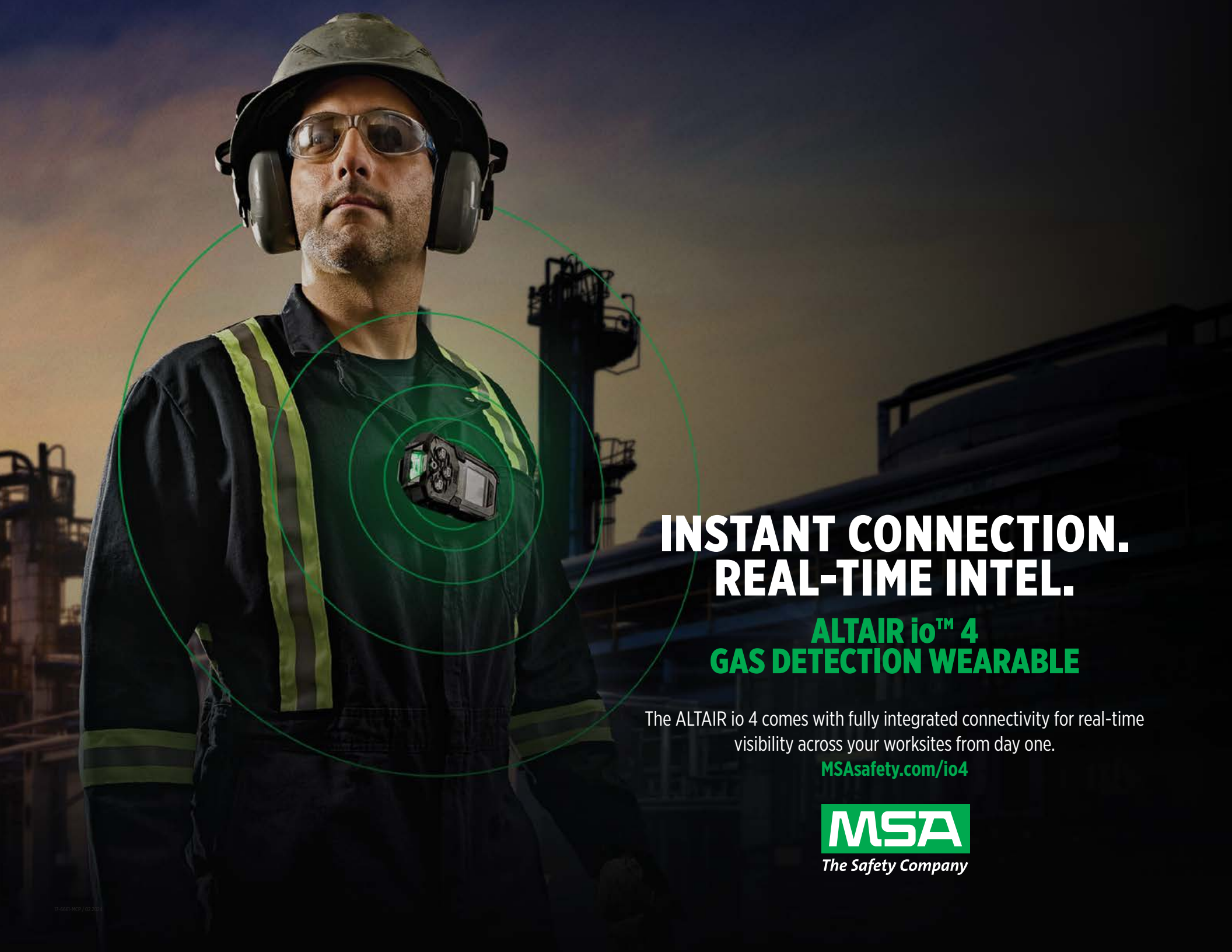
A connected work program makes devices and their associated data visible, including details like when its next service is needed and when its warranty expires. Maintenance scheduling software tools can automatically help you to keep your fleet of devices compliant with minimal downtime. Digital device assignment with RFID tagging helps simplify the process for checking devices in and out each day, and helps make individual workers accountable for assigned devices. With over-the-air updates, you can even remotely adjust the settings of individual units, groups of devices, or the entire fleet.

5. Compliance

Manual auditing of device compliance in a large fleet is another process that swallows up time and may be susceptible to errors. With connected gas detection devices, it can become quick and easy. For instance, automation of checks and compliance test procedures can stop non-compliant units from being assigned for use. Out in the field, automated lockouts can prohibit the use of devices which have become non-compliant. You can see certain compliance status for all devices, wherever they are. Again, these time savings help enable workers to concentrate on continuous improvement and growth in productivity.

Connected gas detection programs can help build connections between workers and worksites, providing actionable data that helps safety managers create safer and more efficient work environments.

Take the first step in starting a connected gas detection program with a brief video demo of the ALTAIR io™ 4 Gas Detection Wearable.


INSTANT CONNECTION.
REAL-TIME INTEL.
ALTAIR io™ 4
GAS DETECTION WEARABLE
The ALTAIR io 4 comes with fully integrated connectivity for real-time visibility across your worksites from day one.
MSAsafety.com/io4
MSA
The Safety Company

By: **Ealat Chaachouh**, *Contributor*

Connected Safety: Five Steps to Drive a Smooth Transition

Building on advances in automation, communication and analytics, today's wearables for gas detection and lone worker safety have the capability to link employees to live, around-the-clock monitoring; enable real-time information sharing; collect vital location data; and more. *(photo courtesy Blackline Safety)*

Never has the industrial workplace seen such a rapid digital transformation, giving rise to a new generation of cloud-connected safety devices to keep workers safe on the job. 74% of organizations consider digital transformation a top priority.

Building on advances in automation, communication and analytics, today's wearables for gas detection and lone worker safety have the capability to link employees to live, around-the-clock monitoring; enable real-time information sharing; collect vital location data; support more informed decision making; and facilitate faster emergency response.

Along with these new developments comes the need for updated, safety-related procedures, policies, behaviors and expectations—to ensure workers embrace and use the technology to its fullest potential—all with a clear understanding of how it can help provide peace of mind, maximize operational efficiency and, most importantly, save lives.

In short, people are being asked to learn new skills and work in new ways, making change management—the application of processes and tools to help people transition from a current state to a future state—a top safety practice priority for Industrial Hygienists.

Managing Change

New research indicates that when a coordinated change-management program is launched in tandem with a new technology rollout, employees feel prepared, equipped and supported. In addition, studies show that projects backed by change management are six times more likely to meet their objectives and five times more likely to stay on schedule.

The goal is to get employees committed to their organization's connected safety program. But exactly where do you start? Here are five essential steps that I have found to be most effective in driving successful change management and ensuring widespread adoption of wearable technology across any organization.

Align on change approach. The first step is to ensure workers understand why the change is happening in the first place. They may feel existing technologies and approaches to safety are working fine, failing to recognize all the advantages technology brings to the table. An effective change-management program starts by sending a clear, standardized message across an organization about why connected wearables are being introduced; how the new devices will operate; what's expected of users; and what benefits they can expect.

Provide vocal and visible leadership. Executives and frontline managers must be front-and-center of the change, clearly articulating the rationale behind it and how the new connected safety technology will improve safety outcomes. Research shows that leaders who explain the purpose (the "why" as well as the "what") of the change—and connect it to the organization's values—create stronger buy-in for the change.

It's also critical to keep employees updated regularly during the change process and to demonstrate progress. If people start to resist change, bring their concerns to the forefront and help them see both the individual and business perspective. Take the time to listen, understand and address concerns, so they feel heard. When small wins happen, celebrate them. This will help maintain momentum and encourage further innovation and change.

Build a change network. Studies show that peer collaboration is a preferred method of learning, with benefits that include higher engagement levels and a higher success rate. Select a group of individuals from within your organization who represent each of the areas affected by the change and who have indicated they are passionate about ensuring the technology adoption succeeds. They will become your Change Champions to serve

as agents, advocates, ambassadors and catalysts for change. Involve them in the process from the beginning, so they feel invested and will be well positioned to provide valuable feedback from their teams. Encourage them to cheerlead, rally and inspire their co-workers to get excited about using connected safety wearables. They can also be instrumental in helping to organize and lead training sessions on how to properly use the technology, including a mix of self-serve, virtual and on-site options to meet diverse business needs.

Invest in implementation. With any technology implementation, a user's first impression matters. It will serve as the key indicator for how much—or how little—they will use their device going forward. That's why it's critical to follow a coordinated implementation process that is based on change-management practices. To facilitate a seamless rollout and adoption of connected safety wearables, Blackline Safety provides an end-to-end onboarding and implementation process. Users are supported by client implementation coordinators who guide them at every step, from introduction, configuration, training and testing—through to feedback, analytics, go-live and follow-up—which includes customer care and technical support.

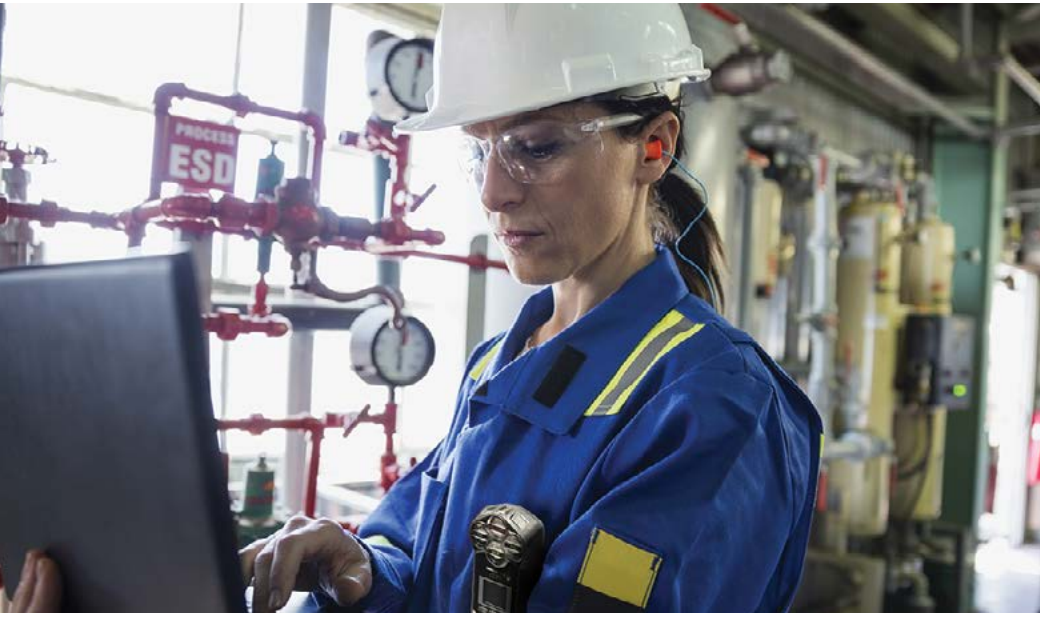
Close the gaps with data. Simply getting the technology to go live without any hiccups doesn't equate to success. You'll want to measure the rate of adoption; one of the easiest ways to do that is by monitoring the flow of data between installed connected devices, including information about usage, compliance and trends.

Some connected wearable gas detectors, for example, provide data by location, team or date range to show whether they are being regularly used, bump-tested and calibrated; or are experiencing false alarms—all of which can be used to determine successful uptake and indicate where more training or implementation support might be needed.

In one case study, a national refrigeration and cooling company found using analytics during early implementation stages unlocked awareness into the field for the HSE managers; increased accountability for the area managers; and drove buy-in from field technicians—as they felt heard and supported. Post-training evaluations, employee engagement surveys and post-implementation meetings are also useful ways to gauge adoption and acceptance.

The path to a robust connected safety program can seem daunting. By keeping your eye on the prize—benefits like improved worker safety, real-time visibility, predictive and proactive safety, streamlined safety processes and worksite safety—clearly communicating what is changing and why, and involving employees at every step, you will get there. IHW

[Ealat Chaachouh is the Manager, Client Implementations - North America, at Blackline Safety, a global leader in connected safety technology.]



Research indicates that when a coordinated change-management program is launched in tandem with a new technology rollout, employees feel prepared, equipped and supported. *(photo courtesy Blackline Safety)*

POSITIVE CHANGE: CASE STUDY

A good change-management program starts by sending a clear, standardized message across an organization about why connected wearables are being introduced; how the new devices will operate; what's expected of users; and what benefits they can expect.

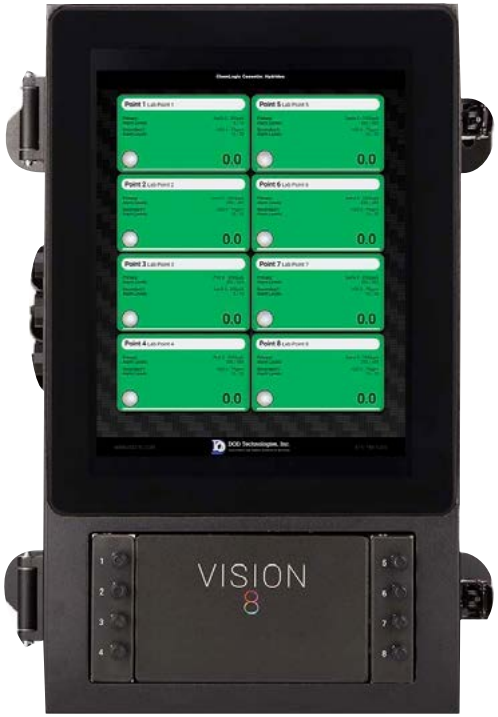
NiSource Inc., one of the largest fully regulated utilities in the U.S., is an example of a company that successfully navigated change management when implementing Blackline Safety lone worker and gas detection wearables. Their program, referred to as NiSAFE (Security/Awareness/Foresight/Empowerment), guided the rollout of nearly 3,000 devices paired with 24/7 live monitoring through Blackline's Safety Operations Centre.

Some of the best practices identified by the NiSAFE program included leveraging super users who trialed the technology and collected input; holding early discussions with leaders who would then pitch the technology to employees; reiterating the benefits of connected wearables through direct messaging from leaders; and gathering, listening and responding to feedback in a timely manner. They also engaged with Blackline Safety on configuration and sensitivity settings to ensure employee concerns about data privacy, access and security were addressed. IHW

DOD Technologies

DOD Technologies

For over 20 years, DOD Technologies has supplied quality, low-level gas detection products and services to semiconductor fabricators, foam manufacturers, laboratories, specialty chemical companies and many other commercial/industrial institutions. We continue to offer the most reliable, technologically advanced gas detection systems that help keep employees safe and operations efficient.



Here are just a few of our popular gas detection solutions:

VISION® 8 CONTINUOUS GAS DETECTOR WITH ΕΛΕ SENSE TECHNOLOGY®

DOD Technologies built a reputation on its signature brand of ChemLogic® colorimetric gas detectors. This extremely reliable form of detection reached a new level with the introduction of the VISION 8 – the world's first, and only, color-sensing and differentiating colorimetric gas detection system.

Capable of distinguishing between different gases within the same family, the VISION 8 produces fast and accurate results. This is due to the incorporation of patented **ΕΛΕ Sense Technology®** (a.k.a. "EYE" or Effective Wavelength Evaluation).

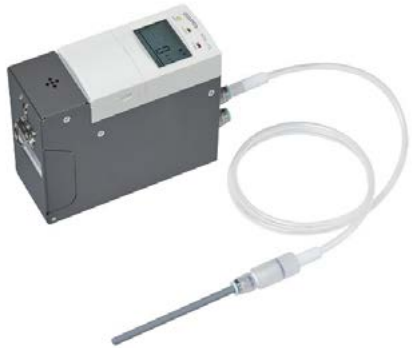
This revolutionary system analyzes samples in an entirely new light, utilizing technologically advanced fiber optics. The VISION 8 actively records, evaluates and stores real-time gas monitoring results. Combined with proven ChemLogic® colorimetric technology, the system effectively captures gas stains on an easy-to-load cassette.

The VISION 8 continuously monitors and detects target gases from up to eight designated points, each up to 500 feet away. The system also efficiently combines detection and controller capabilities into a single unit, with remote viewing and administrator access.

NEW COSMOS XPS-7II PORTABLE ELECTROCHEMICAL GAS DETECTOR

DOD Technologies is the exclusive North American distributor of dependable New Cosmos gas detectors. The XPS-7II Portable Electrochemical Gas Detector offers reliable, calibrated gas detection to meet a wide range of applications. Detect various toxic gases using simple 'plug-and-play' sensors that allow you to quickly adjust to identify your target gas.

Small and lightweight, the XPS-7II features a large LCD display. It utilizes dry alkaline batteries or can be connected to an optional AC power supply. The innovative alarm changes speed as a change in gas concentration is detected.



The XPS-7II is also an excellent option for detecting NF3 in semiconductor plants. Simply insert a compatible NF3 sensor without the need for additional equipment. Sensors are field-replaceable to further reduce maintenance. Choose the optional Sensor Stocker station to store up to nine sensor units for added convenience.

DOD Technologies is proud to be your trusted source and The Leader in Low-Level Gas Detection. For more information, to order or reach out to your local sales and service representative:

Call: 815-788-5200 • Click: DODtec.com

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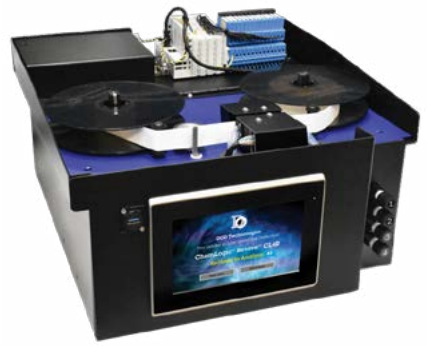
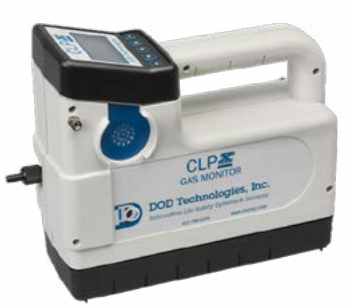
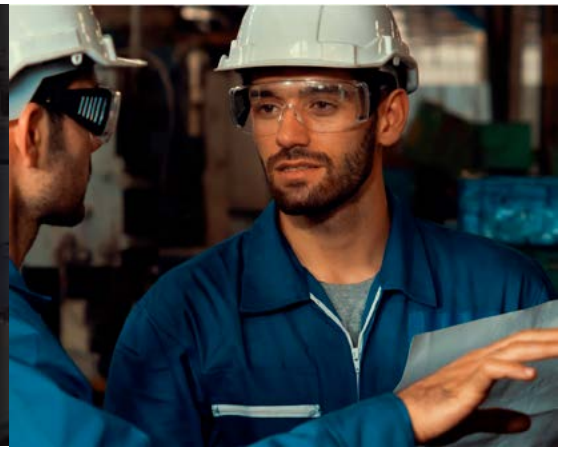




For over 20 years, DOD Technologies has supplied quality, low-level gas detection products and services to industrial and commericial institutions. We still offer the most technologically advanced and reliable gas detection systems available, to help keep employees safe and operations efficient.

Visit DODtec.com to browse and shop on-line, or contact us today for a quote.

Technical Services & Support



Did you know DOD Technologies also offers world-class product repair and support services? We service a wide range of gas detection brands and systems. DOD qualified technicians are available to service your location on-site, or simply ship your equipment to our Service Repair Center. Our expert staff is ready to assist with services such as:

- Gas Detector Repair / Calibration
- Routine System Maintenance
- Employee Training Services
- Short-Term Product Loaners
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