Honeywell | Gas Detection

MicroRAE
Wireless, Portable Four-Gas Detector

Real-time visibility on threats — with an exceptional level of wireless flexibility and ease of use. So you can make faster, more informed decisions to improve safety and operations.

The right gas data at the right time to protect your people and operations.

The MicroRAE portable, wireless, diffusion detector simultaneously monitors up to four gases, including hydrogen sulfide (H_2S), carbon monoxide (CO), oxygen (O_2) and combustibles (LEL). And thanks to its wireless flexibility, the detector is compatible with Honeywell's ConneXt Safety Solutions, enabling you to see real-time gas readings, alarms, man-down status, compliance status, and other data from the gas detector — all from a remote location.

Location tracking for constant safety awareness

The MicroRAE has GPS capability[1] for tracking the location of your workers, so you can immediately determine the location of an exposure and make critical decisions in the moment. With real-time monitoring and location tracking, you can plan the right response, protect your workers and prevent costly downtime.

User-friendly design

The MicroRAE is small, lightweight and easy to handle, while rugged enough to stand up to harsh environments. That means your workers can maneuver freely without their detector getting in the way. And since it's so simple to operate, they can focus on the job at hand — not how to work their gas detector.

Reliable alarm awareness

The MicroRAE has a 100-decibel alarm — the loudest of all our detectors — so even if workers are in a noisy environment, they'll know that danger is present. The MicroRAE also has a backlit screen and LEDs for maximum visibility in challenging conditions.

[1] For regulatory compliance in some countries, the GPS function can be deactivated in the instrument management software.

Industries:

- Wastewater treatment
- Utilities
- Telecommunication
- Construction
- Petrochemicals
- Oil and gas
- Optional sensor configuration for firefighting applications:

  O_2, CO, LEL and HCN (hydrogen cyanide)

Get the benefits of wireless gas detection whether you have a Wi-Fi network, mesh network or no wireless infrastructure at all

The MicroRAE delivers real-time connectivity in all wireless infrastructures, so you can easily add portable four-gas detection to your operations. Get remote command and control by using the MicroRAE detector with any of Honeywell's ConneXt Safety Solutions:

ConneXt Pro

If you want continuous, plantwide monitoring of your workers' gas status and location, use the MicroRAE with ConneXt Pro, the ultimate in wireless gas detection. This solution uses a permanent wireless infrastructure, with fixed area access points throughout your operations, for connectivity of up to 2,000 gas detectors.

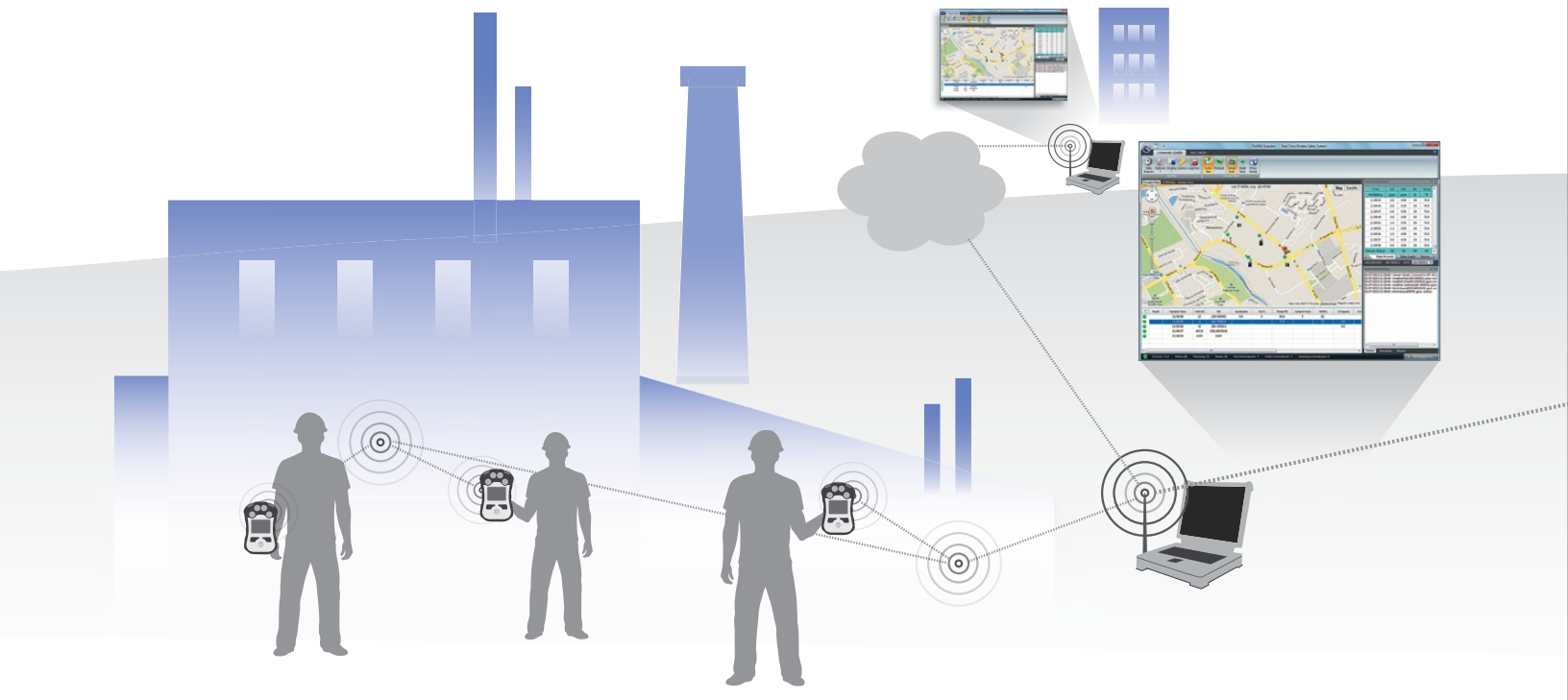
Whether your workers are in a confined space or walking throughout a process unit, their MicroRAE detectors will continuously send data to Honeywell's real-time, map-based monitoring software that can be used locally or remotely. This allows you to immediately determine the location and severity of a gas alarm, get instant awareness of a worker in distress, make better decisions about rescue and evacuation, and proactively monitor workers' safety, compliance and productivity.

ConneXt Plus

When you need real-time monitoring for up to 64 four-gas detectors in a short-term project, use the MicroRAE with ConneXt Plus. This solution delivers wireless connectivity through a portable mesh network, which communicates the readings on each MicroRAE — plus the location of each worker — to Honeywell's real-time monitoring software in your control room or command center.

ConneXt Loneworker

Do you have workers who spend their days alone in remote areas? With ConneXt Loneworker, you can equip them with the MicroRAE four-gas detector and install our rugged wireless router in their vehicle, which sends real-time safety and location data to a cloud-based monitoring platform. That means your lone workers — no matter how remote their location, anywhere in the world — are only a click away.



No wireless network? No problem.

The MicroRAE is equipped with Bluetooth® Low Energy (BLE) technology, which means you can get all the benefits of wireless gas detection — even without a private wireless network. Simply pair each MicroRAE with our intrinsically safe, ruggedized, glove-friendly smartphone; then our Safety Communicator smartphone app will send data from the MicroRAE — over a publicly available cellular network — to the real-time monitoring software in a remote location.

No blind spots

Already have a private Wi-Fi or mesh network? Use BLE and Safety Communicator to ensure continuous wireless monitoring even when a worker is out of range. With the MicroRAE and real-time monitoring software, you never have to worry about blind spots. You always have visibility on your workers' location and gas status.

MicroRAE talks via Bluetooth® Low Energy (BLE) technology to the phone

Phone talks over cellular network to the same host PC as the other detectors

Flexible detection.
The MicroRAE comes in a non-wireless model equipped with BLE. If you're not ready to deploy a full scale wireless gas detection system, you can still achieve remote monitoring of gas safety and compliance by pairing the detector with a smartphone and the Safety Communicator app.

Easy instrument management to improve safety, compliance and productivity

The MicroRAE is not only user-friendly for workers; it's also user-friendly for safety managers. It's never been easier to optimize gas detection and safety administration with the features shown here.

Automatic testing, calibration and charging
The AutoRAE 2 Automatic Test and Calibration System for RAE Systems portable monitors makes instrument testing and calibration compliance as easy as pressing a button.

Quick and cost-effective calibration

The MicroRAE is compatible with the AutoRAE 2 automatic test and calibration system, so there's no need for trained personnel to manually bump and calibrate each detector. Sensor calibration takes only 30 seconds for H_2S, CO, O_2 and LEL, which reduces downtime for your detectors as well as your total cost of ownership by minimizing calibration gas.

Easy configuration and instrument management

Thanks to the data-logging software that comes with the AutoRAE 2, data such as warranty information and bump-and-calibration records are sent to the software whenever it's docked — for streamlined maintenance and reporting. You can also use this software to configure the detectors and upgrade the firmware.

Easy verification of compliance

The MicroRAE is equipped with IntelliFlash™, a flashing green light visible from distance that indicates the detector has been bump tested and is monitoring correctly. So you can know at a glance that workers' detectors are compliant with government regulation and company policy.

Easy identification of sensor configuration

Want to quickly determine which sensors are in a MicroRAE? The detector is equipped with a time-saving "glance mode": Simply press a button to see the sensor configuration.

Advanced fleet management

The MicroRAE is compatible with our cloud-based ProRAE Guardian Care Center software, which automates the management of your entire fleet of wireless detectors. Use ProRAE Guardian Care Center to configure multiple AutoRAE 2 cradles to perform specific activities when a detector is docked, from updating the firmware to adjusting the alarm set points. You can also use ProRAE Guardian Care Center to monitor sensor health for predictive maintenance — and a whole lot more.

Gathering the right safety data at the right time and acting on that data with speed and precision gives you a competitive advantage.

Whether you have Wi-Fi, mesh or no wireless infrastructure at all, use the MicroRAE with Honeywell's real-time monitoring software to get real-time visibility on workers' gas status and location.

- Maintain constant safety awareness
- Immediately know when a man is down or in distress
- Plan the right response
- Quickly disseminate information
- Improve workers' peace of mind and productivity
- Correct small gas leaks before they become crippling to operations
- Minimize downtime
- Ensure compliance, avoid regulatory fines and manage liability costs

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