

# THE SOUND OF SAFETY IN ANY ENVIRONMENT

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Searchzone Sonik™

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**Honeywell**

# SEARCH. DETECT. PROTECT. ULTRASONICALLY

## THE HAZARD IS BLOWING IN THE WIND.

Field studies have shown that around 30% of flammable gas leaks can go undetected because the gas is blown away by the wind. But if the weather conditions change, and the wind drops, the chances are that a flammable gas cloud might build up and trigger incidents and hazards.

Since traditional point and open-path devices cannot detect leaks unless the gas reaches the sensor, a need exists

for a revolutionary and complementary type of gas detection technology. Instead of relying on the gas to reach the detection device, Searchzone Sonik™ operates by responding to sound created by high-pressure gas leaks at the source.

## HOW DO YOU SENSE WHAT YOU CAN'T HEAR?

Since gas does not need to come into contact with their sensors, ultrasonic (or acoustic) detectors respond

instantly upon “hearing” the distinct sound pattern of a leak, operating at a frequency outside the range of human hearing.

Unaffected by airflows and adverse weather conditions, they are particularly suited to open and well-ventilated areas, such as floating production storage and offloading vessels, gas turbine power plants, compressor stations, gas storage facilities, chemical processing plants, refineries, or offshore and onshore oil and gas installations.



## SEARCHZONE SONIK™ – SAFE AND ULTRASOUND

The Honeywell Searchzone Sonik™ is a robust and reliable gas leak detector that will efficiently “hear” the loss of containment of any high-pressure gas within its listening zone. An advanced, SIL 2 certified, hazardous area ultrasonic gas leak detector, the Searchzone Sonik™ responds to the ultrasonic sound pressure level produced by pressurized gas leaks and is therefore unaffected by environmental conditions.

Searchzone Sonik™ is factory calibrated. Its robust sealed design with no moving parts and the solid-state sensor allow for mounting in any orientation, even in the harshest environments. The gas leak detector will respond quickly to a gas leak within a sensing range radius of typically 20m (66 ft), dependent upon background noise. The intelligent background noise detection system allows the detector to be set up for maximum sensitivity or use Focus Mode to restrict the detection area to only include the zone being monitored. This way you have confidence that you’ll always stay safe and ultrasound.



### YOU OWN THE HIGH GROUND

Suppose you are servicing an ultrasonic device that complements the point and open path gas detectors of an offshore platform. It’s raining, the wind is blowing, and you’re on a slippery deck, a long way below the device you need to reach.

Concerned about working at heights, in awkward positions that may threaten your safety? Thanks to an easy-to-use mobile app and dedicated handheld test tool, you can connect and test the Searchzone Sonik™ from ground level and, without exposing yourself to hazards. Simply connect with your smartphone, and use the tool to check the detector’s response – it’s as easy as that.

### FOCUS ON WHAT’S IMPORTANT

Industrial installations usually contain numerous potential sources of ultrasonic noise. In most cases, these will not present an issue in the effectiveness of an ultrasonic gas leak detector.

However, the area of a potential leak source is generally known so why hear

sounds from all around?

Searchzone Sonik™ features an innovative, patented Focus Mode. Switch to this mode and enable special algorithms that effectively screen ultrasonic noise outside of the specific area of interest, dramatically reducing the risk of nuisance alarms from unwanted sources.

# HARSH WEATHER CONDITIONS? SEARCHZONE SONIK™ CAN HELP.

Provides reliable gas leak detection in a wide range of applications and working environments. By using a solid state sensor, completely sealed from moisture and contaminants, the Searchzone Sonik™ will identify gas leaks even in the harshest environments and adverse weather conditions.



#### **Lowers the risks of nuisance alarms**

Thanks to its advanced algorithms and Focus Mode, the detector has maximum sensitivity and is highly resilient to false alarms produced by normal process or maintenance activities.

#### **Increases convenience and ease of use**

You can access your Searchzone Sonik™ and run confidence checks on your smartphone from up to 20m (66 ft) away.

#### **Minimizes cost of ownership and saves time**

The Searchzone Sonik™ is easy to install, commission and maintain; and by using the dedicated mobile app, you can access it in the blink of an eye.

#### **Ensures reliable response in case of emergencies**

With a Safety Integrity Level rating of 2, the Searchzone Sonik™ is appropriate

for applications requiring an emergency shutdown and other automatic controls.

#### **Helps prevent fires, explosions and toxic exposure**

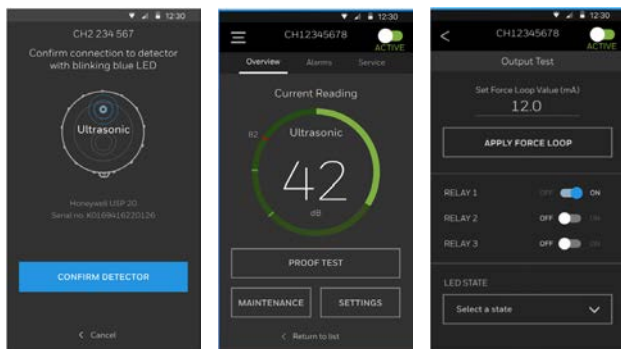
By identifying any high pressure gas leak, the Searchzone Sonik™ allows proactive action to avoid fatal hazards that might endanger the workers' lives and the integrity of your infrastructure.

# SAFETY, RELIABILITY AND COMFORT. ON THE SPOT.

## Bluetooth® Connectivity



Set-up and interrogation from ground level via Bluetooth® using a dedicated application on mobile phones or tablets.



## Easy and Intuitive Functional Testing

The dual mode hand test tool easily performs functional checks and is Class 1 Division 1 and Zone 1 certified. Simply aim the tool at the Searchzone Sonik™ detector and press the button. The detector recognizes the tool, inhibits the output and logs the test result automatically.



## Simple Installation and Positioning

The versatile adjustable mount is supplied as standard and features with graduated adjustment in three axes enabling easy mechanical set-up with a wide range of mounting options.

## Robust Materials

Stainless steel housing.

## No Moving Parts

The solid-state sensor works flawlessly even in the harshest environments and will never need additional calibration.

## Wide Zone Coverage (Standard Mode)

20m (66 ft) detection radius, dependent upon background ultrasonic noise levels.

## Focus Mode

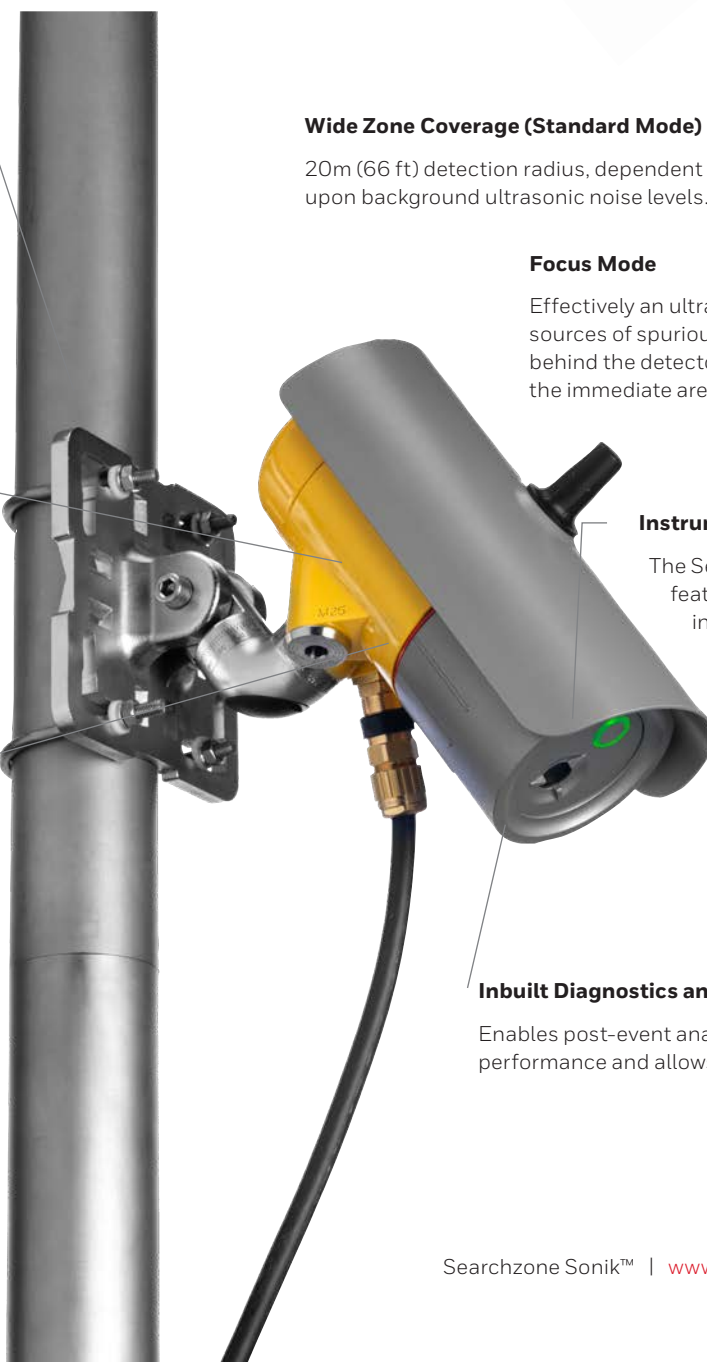
Effectively an ultrasonic screen. Ignore sources of spurious noise to the sides and behind the detector so that it only monitors the immediate area.

## Instrument Status at a Glance

The Searchzone Sonik™ features a highly-visible indicator light – green, yellow, red, or blue – providing clear indication of the instrument status.

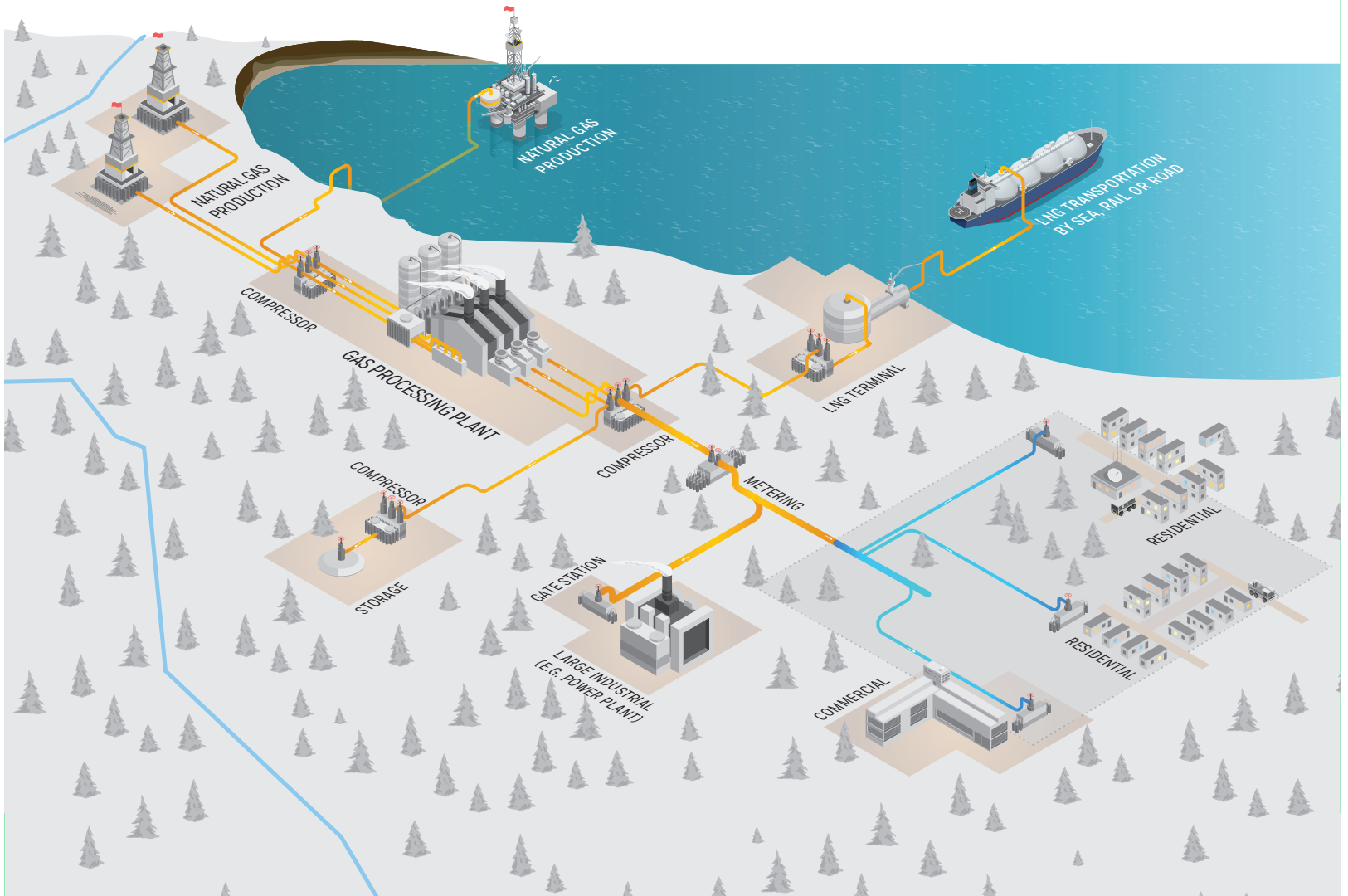
## Inbuilt Diagnostics and Full Operational Logs

Enables post-event analysis to assess overall performance and allows security checks.



# GAS JOURNEY

## | Searchzone Sonik™ applications



## APPLICATIONS AND OPERATING ENVIRONMENT

### PRODUCTION

Exploration vessels • Wellheads • Compressors • Metering skids • Valves.

### STORAGE

Pumps • Valves • Seals.

### GATHERING AND PROCESSING

Compressors • Processing plant • Turbines • Gas safety valves.

### TRANSMISSION AND DISTRIBUTION

Compressors • Pipelines • Metering stations • Valves.




## **AFRAID OF MISSING GAS LEAKS? SET YOUR MIND AT EASE.**

### **EASE OF OPERATION**

- Robust, solid state sensor design, fit for demanding environments including pressure wash-downs.
- Factory calibrated – no field calibration needed.
- Built-in test and diagnostics to maintain operation.
- A wide range of outputs including 4 to 20 mA, HART®, Modbus and Relays.
- Highly-visible indicator for safety awareness; a unit needing maintenance is easier to locate.
- Real-time detection readings and full logging simplify asset management.

### **EASE OF INSTALLATION**

- Versatile mount with three axis adjustment enables pole, wall, or strut mounting and easy alignment with the area to be covered.
- Wiring compartment with angled cable entry and pluggable connectors, separated from the sensing electronics.
- App for smartphones and tablets with installation guide and logging helps set-up and asset management. Free from 

### **EASE OF COMMISSIONING**

- The high visibility bright indicator provides clear indication of the device status.
- No need to work at height thanks to the ability to perform remote set-up using the Bluetooth® app on your phone or tablet.
- The easy-to-use Test Tool enables fast functional testing.
- Commissioning log automatically generated.

### **EASE OF MAINTENANCE**

- The reliable internal self-testing and diagnosis enable pro-active maintenance.
- Non-intrusive interaction via Bluetooth® and the App reduces maintenance time and safety risks.
- Simple module replacement if necessary; plug and play.
- Maintenance logs automatically generated.



## DEDICATED TO YOUR SAFETY FOR MORE THAN 50 YEARS

As the industry leader for more than 50 years, Honeywell is the partner that workers worldwide trust to provide reliable gas detection. Honeywell proudly stands behind each fixed or portable gas detection product, built to withstand the most rigorous needs and to meet or exceed applicable requirements and standards.

Even the best products need to be serviced regularly. Each Honeywell service contract is designed to help

maximize your hardware uptime while minimizing your related costs and risks to your production and employees' health.

For a tailored gas detection solution to meet the requirements of your applications and industry ask your sales representative or visit

<https://sps.honeywell.com/us/en/products/safety/gas-and-flame-detection/industrial-fixed/searchzone-sonik>



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