

### **Searchzone Sonik**<sup>™</sup>

The Sound of Safety in Any Environment

# 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, the need arose for a revolutionary and complementary type of gas detection technology. Instead of waiting for the gas to reach the detection device, an ultrasonic detector operates by responding to the sound created by high-pressure gas leaks at 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, petrochemical processing plants, refineries, or offshore and onshore oil and gas installations.

### Searchzone Sonik - Safe and Ultrasound

The new 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 (65 ft), dependent upon background noise. The intelligent background noise detection system allows the detector to be set up for maximum sensitivity while avoiding false alarms. This way you have confidence that you'll always stay safe and *ultra*sound.



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 heavily, and you're on a slippery deck, a long way below the Searchzone Sonik you need to reach.

Concerned about working at heights, in awkward positions that may even threaten your safety? Think again. Thanks to an easy-to-use mobile app and a dedicated testing tool, you can connect from ground level and test the Searchzone Sonik remotely, without exposing yourself to hazards. All you need to do is to stand on the deck, connect with your smartphone, and use the testing tool to check the detector's response – it's as easy as 1, 2, 3 to have the high ground.



 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 false alarms
Thanks to its background noise detection
system, the detector has maximum sensitivity
and is immune to false alarms produced by

process or maintenance activities.

• Increases mobility and ease of use You can test your Searchzone Sonik and run confidence checks on your smartphone from up to 20m (65 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.

Prevents 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' life and the integrity of your
 business assets.

# 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.







### **Complements Existing Gas Detectors**

The Searchzone Sonik seamlessly integrates with existing point and open-path detectors in the gas detection layer.



### Simple Installation and Alignment -

The Platform Universal Mount with graduated 3 degrees of freedom enables easy mechanical set-up with a wide range of mounting options.



Low copper aluminum or stainless steel housing.

### **No Moving Parts**

The solid-state sensors work flawlessly even in the harshest environments and don't need additional calibration.

### Wide Zone Coverage

20m (65 ft) detection radius, dependent upon background ultrasonic noise levels.

### Instrument Status at a Glance

The Searchzone Sonik features a bright 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.

# | 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 to enable system design, including 4 to 20 mA, HART, Modbus, Relays.
- Bright light 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

- Universal mount with three degrees of freedom enables pole, wall, or strut mounting and easy alignment with the area to be covered.
- Wiring compartment with angled cable entry and plugged terminals, separated from the sensing electronics.
- App for smartphones and tablets with installation guide and logging helps set-up and asset management.

### **Ease** of Commissioning

- The high visibility bright light provides clear indication of the device status.
- No need to work at height thanks to the ability to run remote set-up using the Bluetooth app on your phone or tablet.
- The easy-to-use Ultrasonic Test Unit enables fast checking of the area of coverage.
- Automatic generation of commissioning log.

### **Ease** of Maintenance

- The reliable internal self-testing and diagnosis enable pro-active maintenance.
- Via a Bluetooth app, non-intrusive interaction reduces maintenance time and safety risks.
- Simple module replacement if necessary; plug and play.
- Automatic generation of maintenance logs.





### 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 www.honeywellanalytics.com/products/Searchzone-Sonik

### Find out more

For more information visit: www.honeywellanalytics.com

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