

▶ Honeywell Searchzone Sonik™

TEX / IECEx Ultrasonic Gas Leak Detector



Technical specifications

Power supply:

- 24 VCC (18–32 VCC)

Dynamic range:

- 60 to 120 dB (detection 40–140 dB)

Detection cone:

- ±90° (standard) / ±20° (focused mode)

Calibration :

- Factory calibrated, no field adjustment required

Response time:

- 1 second

Maximum power consumption:

- 4 W (> -30 °C) / 15 W (< -30 °C)

Analog output:

- 4–20 mA isolated (configurable)

Communication output:

- Modbus RTU RS-485 / HART® / Bluetooth®

Relays :

- 1 fault, 2 alarms (2 A max.)

Relative humidity:

- 0–100% (with condensation)

Dimensions / Weight :

- 103 x 235 x 179 mm / 6.1 kg

Mounting bracket:

- Standard: 2.9 kg / Large: 3.5 kg

Operating temperature :

- -55 °C to +75 °C

Vibration :

- 2–60 Hz, maximum amplitude 1 mm

Warranty :

- 36 months from date of shipment

Product description

The Honeywell **Searchzone Sonik™** is an ultrasonic gas leak detector designed to provide fast, reliable, and non-intrusive detection of gas leaks in hazardous industrial environments. Based on the acoustic monitoring of ultrasonic sound emitted by pressurized gases, it can detect a leak before the gas disperses into the atmosphere, ensuring maximum safety.

▶ Detected Gases

The Searchzone Sonik™ detects all pressurized gas leaks, regardless of the gas type (toxic, flammable, or inert), by analyzing the ultrasonic sound generated by the leak. No gas-specific calibration is required.

▶ Applications

The Honeywell Searchzone Sonik™ is ideal for offshore platforms, refineries, gas terminals, chemical plants, and power stations, as well as any ATEX-classified area requiring continuous gas leak monitoring. Its advanced acoustic detection technology efficiently identifies pressurized gas leaks even in noisy environments or areas with strong turbulence, where conventional detectors may be less effective.

▶ Key Features and Benefits

The Honeywell Searchzone Sonik™ ensures fast and contactless gas leak detection, even in high-noise environments. It requires no on-site calibration, includes a built-in self-test, and offers full connectivity through Bluetooth®, Modbus, and HART®. Its 316L stainless steel housing, rated IP66/67, provides maximum resistance to harsh environmental conditions, with a wide operating range from -55 °C to +75 °C, and full ATEX, IECEx, and SIL2 TÜV certifications.

▶ Safety Certifications

The Honeywell Searchzone Sonik™ is certified ATEX, IECEx, UL/cUL, SIL2 TÜV, and also holds marine approvals from DNV, BV, Lloyd's, and ABS, ensuring full compliance in hazardous and industrial environments. Verification can be easily performed using an ultrasonic test tool.

▶ Compatible Accessories

The Honeywell Searchzone Sonik™ is supplied with a standard mounting bracket and a plastic sunshade for easy installation and effective protection. Optional accessories include a large stainless steel bracket (ref. 2331B1112), a stainless steel sunshade (ref. 2331B1131), and an ultrasonic test generator (ref. 2331B1000). The Searchzone Sonik™ mobile app, available for Android and Bluetooth®-connected, allows quick configuration, remote diagnostics, and simplified maintenance.