BE ATEX

SEARCHZONE SONIK

Honeywell

THE ULTRASONIC GAS LEAK DETECTOR DESIGNED FOR HAZARDOUS ZONES.

The Searchzone Sonik is an advanced, SIL2-certified ultrasonic gas leak detector for hazardous zones. Rather than indicating the type of gas detected, it responds to the ultrasonic sound pressure level produced by gas leaks. It provides protection against toxic or flammable hazardous gas leaks, regardless of environmental conditions.

With its bright LED, it provides clear visual indication of instrument status. It can be mounted on a plate, a stand or any other elevated site infrastructure to cover the zone you want to protect, with a sensing radius of 20m. You can connect to the Searchzone Sonik remotely via Bluetooth™ with the mobile app, so you can configure and maintain it without putting yourself in danger.

Available in painted stainless steel, it has two cable entries for easy wiring with the M25 or 3/4" NPT options, as well as a wide range of outputs including 4-20mA relays, Modbus® and HART®.

The Searchzone Sonik device is ATEX, IECEx and cULus approved for use in either Zone 1 (gas) or Zone 21 (dust) hazardous zones as well as Class I Division 1 or Class II Division 1 locations.

Applications and operating environment:

This device is particularly well-suited to hard-to-reach areas and open or well-ventilated areas such as floating production, storage and offloading vessels, gas turbine power plants, compressor stations, gas storage facilities, petrochemical processing plants, refineries, and offshore and onshore oil & gas installations.

SPECIFICATIONS:

- Stainless steel housing and sunshade as standard
- Easy to install and align with the mounting bracket
- Semi-conductor sensors without additional calibration
- Wide zone coverage (20m radius)
- Integrated diagnostics and comprehensive event log
- Visual status indicator with multi-colour high visibility LED (green, yellow, blue, red).

TECHNICAL DATA

Size:
Instrument: 3.94 dia x 9.05 x 6.69 in. / 10.3 dia x 23.5 x 17.6 cm
Standard Mount: 6.3 x 6.3 x 4.72 in. / 16.5 x 16.5 x 12.7 cm
Large Mount: 8.27 x 8.27 x 4.72 in. / 21.0 x 21.0 x 12.7 cm

Weight:
Instrument: 13.2 lbs / 6.1 kg
Standard Mount: 6.4 lbs / 2.9 kg
Large Mount: 7.7 lbs / 3.5 kg

Temperature: -76 ˚F to +167 ˚F/ -55˚ C to +75˚ C

Humidity: 0 to 100% RH

Speed of response:
Sensor response 1 s;
Programmable Verification time from 0s to 600 s

Detector range:
Typically 20 m on-axis radius (background noise dependant)

Minimal pressure level for detection:
H_2 = 10 bars, Others gases: 20 bar

Cable entries: 2 x M25 or 2 x 3/4" NPT

Outputs:
Relays (1 fault, 2 Alarm) – contact rating 2 A (resistive load). Fully configurable 4 – 20 mA isolated, sink or source (maximum loop resistance 600 ohms);
Fault < 1 mA, Warning 3 mA, Over-range 22 mA. Linear configurable output corresponding to Sound Pressure Level.
Protection class: IP 66/67

Certifications and approvals:
ATEX: DEMKO 18 ATEX 1866X Rev.0
IEC: EN 61000-6-4
Electrical Safety: IEC/EN/UL/CSA 61010
EMC Directive 2014/35/EU, EN 50270: 201

Warranty: 3 years

Bluetooth Connectivity

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