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Gassonic Observer-H Ultrasonic Gas Leak Detector Features HART Communications Protocol

Ideal for Compressor Stations, Drilling Rigs and Platforms, FPSO, Gas Gathering Facilities, Hydrogen Storage, LNG, Oil and Gas Production Platforms, Petrochemical Applications, Refineries

LAKE FOREST, CA—February 14, 2012—The [Gassonic Observer-H Ultrasonic Gas Leak Detector](#) from [General Monitors](#) is ideal for gas leak detection in pressurized systems. The new Gassonic Observer-H features HART communications, Modbus with single and block transfer modes, Emerson AMS Intelligent Device Manager support, and event logging. The Observer-H is ATEX, IECEx, FM and CSA hazardous area certified and SIL 3 suitable.

The Gassonic Observer-H detects gas leaks by sensing the airborne ultrasound emitted from leaking gas at high pressure. It is suitable for gas detection in open, well-ventilated areas, where traditional detection methods may be unsuitable or dependent on ventilation. Since the gas leak detector responds to the source of a gas release rather than the dispersed gas, it is unaffected by changing wind directions, gas dilution, and the direction of the leak. The Gassonic Observer-H's wide coverage zone makes it possible to supervise areas up to a 20 meter radius, for the detection of leaks as small as 0.1 kg/sec., with only one device.

Rugged and designed for failsafe operation, the Gassonic Observer-H features robust microphone technology with an advanced stainless steel microphone. The detector also offers the [Senssonic™ integrated acoustic self-test](#), which verifies the integrity of the instrument's electric circuit and microphone every 15 minutes. It features stainless steel, AISI 316L explosion-proof housing, offering corrosion resistance in the harshest environments.

The Gassonic Observer-H features a sophisticated high pass filter to remove frequencies below 25 kHz, effectively eliminating interference from audible sound. At the same time, setting the alarm trigger level above the ultrasonic background noise ensures the detector accurately detects gas leaks. The Observer-H is equipped with a 3-digit LED display and an event logging function that stores fault, sound check, calibration, and alarm event history.

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The versatile Gassonic Observer-H can be configured with an analog output or Modbus or HART communications to provide complete status and control capability in the control room. The Modbus and HART data can also be used for predictive maintenance and to enable asset management and process improvement.

The Gassonic Observer-H detects leaks at a frequency range of 25-70 kHz at a dynamic range of 58-104 dB. Detection coverage varies from 13-20 m radius in very low noise areas (<58 dB), 9-12 m radius in low noise areas (<68 dB), to 5-8 m radius in high noise areas (<78 dB). Such distances are defined for a methane gas leak of 0.1 kg/s.

The Gassonic Observer-H operates at a temperature range of -40°F to 140°F (-40°C to 60°C) and at a humidity range of 10 to 95% RH.

About General Monitors and Gassonic

Founded in 1961, General Monitors is a leading manufacturer of gas and flame detection monitoring instruments. The company is third-party certified to ISO 9001:2008 requirements. [Gassonic A/S](#) is today part of the [General Monitors](#) family of companies. Gassonic was the first company to develop an ultrasonic gas leak detector over ten years ago.

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Company Contact: Angela Saucedo • MARCOM Mgr • Tel: 949-581-4464 • Email: etech@generalmonitors.com

Agency Contact: Randy Brown • Tel: 909-335-1941 • Email: brownr@rbmarketing.com

Data Sheet: http://www.generalmonitors.com/downloads/literature/ultrasonic/OBSERVER_H_DATA.PDF

Web: <http://www.gassonic.com/>

Tel: 1-800-330-9161 • Tel: 949-581-4464 • Fax: 949-581-1151

Company Address: General Monitors • 26776 Simpatica Circle, Lake Forest, CA 92630