

SF6 leak detector

Model 3-033-R002

Description

The remarkable sensitivity of this hand held unit allows the user to detect sulfur hexafluoride to levels equivalent to 0.1 oz/year (3 grams/year). An advanced microprocessor is the heart of this unit. Its digital signal processing provides excellent management of the circuitry and sensing tip signal. The microprocessor monitors the sensing tip and battery voltage levels 4000 times per second, compensating for even the most minor fluctuations in signal. This translates into a stable and dependable tool in almost any environment.

Convenience features have been incorporated into the 3-033-R002 to enhance its operation. Seven levels of sensitivity provide and increase of 64 times from level 1 to level 7. Unique tri-color LEDs show a progressive and wide range of leak size indication, communicate the sensitivity level, and provide a true voltage indication of battery power level. A tactile keypad controls all functions. The housing design provides the user with a secure grip and control and places the visual indicators in direct sight during use.



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Features	Specifications
<ul style="list-style-type: none"> • Microprocessor control with advanced signal processing. • Seven sensitivity levels. • Tactile keypad controls. • Real-time SF6 sensitivity adjustment. • Battery test function with battery voltage indication. • True mechanical pumping ensures positive air flow through the sensing tip. • Cordless and portable. • 14" flexible stainless steel probe. • Built-in mute feature. 	<p><i>Power Supply</i> 3V DC - two "C" cell alkaline batteries.</p> <p><i>Max Sensitivity</i> 0.1 oz/year (3 grams/year) SF6</p> <p><i>Operating Temperature</i> 30° to 125° F.</p> <p><i>Life</i> Approximately 30 hours normal use</p> <p><i>Response Time</i> Instantaneous</p> <p><i>Reset Time</i> one second</p> <p><i>Warm-up Time</i> Approximately 2 seconds</p> <p><i>Unit Weight</i> 1.2 pounds</p> <p><i>Dimensions</i> 9" x 2.5" x 2.5"</p>

Model 21-070

mini gas leak detector

Description

The model 21-070 gas leak detector easily and quickly pinpoints gas leaks emitting from pressurized systems. Using a thermal conductivity detector with signal amplification, the instrument is zeroed in ambient air and responds to any gas mixture with a thermal conductivity different from that of air. The instrument is highly sensitive, having an intrinsically high signal to noise ratio with amplification that provides a maximum usable sensitivity.*

The model 21-070 can be operated with little or no training. Turn it on, zero, probe for leaks: its that simple. As the instrument probe passes over the leak, a sample is drawn into the conductivity cell. When a leak is discovered a signal is registered on the LED bar graph. No messy soap solution, so system contamination



Specifications

*Sensitivity

Detector
thermal conductivity w/thermistors

Readout
LED bar graph with yellow and red segments

Line Voltage
115 V, 60 Hz

Battery
Rechargeable NiCCd, 7.2 V/800 mAh

Battery Life
3.5 hours; may be recharged to 95% in 1 hour

Dimensions
3.25" W x 1.75" H x 5.25" L

Weight
Instrument 1.05 lbs
Charger 0.61 lbs

Helium 1.0×10^{-5} cc/sec
Argon 1.0×10^{-4} cc/sec
COO2 1.0×10^{-4} cc/sec
Refrigerant 1.0×10^{-4} cc/sec

Ordering Information

Model	Description
21-070	mini gas leak detector
59-050	carrying case

CAUTION

This leak detector is NOT designed to be used to determine leaks of combustible gases. It is designed to determine low level leaks of any gas having a different thermal conductivity than air. Utilizing this property it is, therefore, not specific to any gas or vapor. A combustible gas leak detector should be used for determination of combustible gas leaks in possible hazardous conditions.

fixed installation type – Beacon 110, Beacon 200, Beacon 410, and Beacon 800

Gas Detection Systems

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Description

Gas detection should not be complicated. The Beacon™ Series is gas detection simplified. The Beacon™ Series are powerful, low cost fixed system controllers for one, two, or up to eight points of gas detection. They are microprocessor controlled, versatile, simple to install and operate, and priced to be the industry's best value single and multiple gas detection controllers.

The wide variety of sensor heads available for the Beacon Series can provide protection for many of the gases commonly used in industry or laboratories today. A comprehensive list of available detectors is provided below.

Sensors can be mounted directly at the Beacon™ housing, or can be wired remote from the controller. The digital displays have backlighting and simultaneous readout of the gas type(s) and concentration(s). The bottom mounted wiring hubs make wiring easy. An external reset switch allows alarms to be silenced from outside the controller housing.

With 10 or 12 amp rated relays, the Beacon Series can be wired directly to a variety of devices like horns, buzzers, or lights eliminating the need for costly external relays from the controller to devices.

The Beacon™ Series is housed in a NEMA 4X rated case for a weather tight seal. This case design complies with the new lock out / tag out standard and can be fully secured. An external reset switch allows the alarm to be silenced from outside of the controller housing. The Beacon™ units ship complete with a wall mounting kit for easy installation.



Features

- Low cost versatile solution!!
- Compact, weatherproof, NEMA 4X enclosure.
- 115 VAC or 12 VDC operation.
- Long life sensors (2+ years typical).
- Accepts LEL/O₂/H₂S/CO direct wire sensors (Beacon 110, 200, and 410).
- Accepts any 4-20 mA transmitter.
- Audible alarm with reset button.
- Three programmable alarm levels.
- Built-in trouble alarm with relay.
- Relay rating 10 or 12 amps, form C.
- Provides 4-20 mA output.

Industry Applications	About Sensors	Direct Wire Detectors
<ul style="list-style-type: none"> • Laboratories • Semiconductor manufacturing facilities • Petrochemical plants & refineries • Water & wastewater treatment plants • Pulp & paper mills • Gas, telephone, & electric utilities • Parking garages • Manufacturing facilities 	<p>The sensor is the actual device that is sensing the gas. Three sensor types are available for use with the Beacon Series Controller: direct wire, gas diffusion, and sample draw. Sensors typically last 2 to 4 years, but can last for a longer or shorter time depending on the nature of the application.</p>	<p>Direct wire detectors are hard wired diffusion sensors to the controller and do not require a transmitter. They are, therefore, more economical than detectors requiring a transmitter. Direct wire detectors can only be used with the Beacon 110, 200, and 410 controllers. While the choice of gases is limited for hard wire detectors they can be an economical choice when available. In general, the use of a transmitter is preferred for distances over 300' to 500' to simplify calibration.</p>