LEAKATOR®JR.

Combustible Gas Leak Detector

Instruction 19-9336

Rev. 0 – October 2005

12 Inch Flexible Probe

Battery Door

Combustibles Sensor & Sensor Cover

Audible Alarm

- **Instrument Ready -** Slow beep. The beep rate is about once per second with no gas detected.
- **Combustible Gas Indication -** Beeps at a rate that increases along with the gas concentration.
- **Sensitivity -** Produces an *increasing* frequency tone when sensitivity changes from low to high, and produces a *decreasing* frequency tone when sensitivity changes from high to low.
- **Dead Batteries -** High frequency tone, followed by the instrument turning itself OFF.
- **Sensor Error -** Rapidly changing high and low frequency tones.

Visual Alarm LED

- **Power ON -** Rapidly flashes green during warm-up (approximately 60 seconds).
- **Power OFF -** Glows red just before power OFF.
- **Instrument Ready -** Slowly flashes green. The flash rate is about once per second with no gas detected.
- **Combustible Gas Indication -** Flashes green at a rate that increases with the gas concentration.
- **Sensitivity Change -** Color changes from red to green.
- **Low Battery -** Flashes orange instead of green when checking for gas leaks. Typically 1 hour of operation left after LED changes to orange. Change batteries as soon as convenient.
- **Dead Batteries -** Glows red, followed by the instrument turning itself OFF.
- **Sensor Error -** Flashes alternating green and red.

One Button Control

- Press once for half second to turn instrument ON.
- Press and hold for 2 seconds to turn instrument OFF.
- Double press to toggle sensitivity between high and low.

CLASSIFIED UL 4HA7

Features

- Compact Gas Leak Detector - The Leakator Jr. detects and pinpoints combustible gas leaks in commercial, residential, and industrial applications, including surveying gas pipelines
- Wide Variety of Combustibles Detected - Acetone, Acetylene, Benzene, Butane, Ethanol, Ethylene Oxide, Gasoline, Hexane, Hydrogen, Industrial Solvents, Iso-Butane, Methane, Methanol, Paint Thinners, Propane, Natural Gas, and Naptha.
- Compact and Ergonomic Design - Simple one button control allows the user to hold and operate the instrument in one hand. The flexible probe with sensor located at the tip allows leaks to be found in tight spaces.
- Leak Indication - The relative concentration of the combustible gas present is indicated by the frequency of the audible and visual alarms.
- Automatic Calibration - The instrument automatically calibrates itself during warm up when turned ON in fresh air.
- Selectable Sensitivity - High and low sensitivity mode selectable by a double press of the ON/OFF button. Pinpoints concentrations as small as 20 ppm in the high-sensitivity mode.
- Power - Four disposable 'AA' alkaline batteries provide a minimum of 14 hours of operation. A low battery indicator warns the user when the batteries need replaced. The instrument will also automatically turn itself OFF after a period of non-use to preserve battery life.
- UL 913 Approved - Intrinsically safe for Class I, Division 1, Groups A, B, C, and D.
- Sensor Error Indicator
- Low Power Metal Oxide Sensor
- Microprocessor Controlled Circuitry

SPECIFICATIONS	
Package Contents	Leakator Jr. instrument housed in a four piece molded ABS plastic case including 4 'AA' batteries, cloth case, sensor, and instructions.
Power	Four 'AA' alkaline batteries, 14 hours typical life for continuous operation
Warm-Up Time	Automatic, self check, about 60 seconds to operational condition
Sensor	Low power metal oxide sensor
Probe	Self storing 12 inch flexible probe
Sensitivity (Methane Based)	20 ppm in high-sensitivity mode 50 ppm in low-sensitivity mode
Status Indicators	Visual: Red, Orange and Green LEDs Audible: Variable speed beeping sound
Environments	32 to 104°F (0 to 40°C)
Dimensions	6H x 2W x 1.5D inches (152 x 51 x 38 mm)
Weight	Less than 6 oz (170 g) with battery
Safety Approvals	UL 913, intrinsically safe for use in Class I, Division 1, Groups A, B, C and D hazardous locations
Warranty	2 years full warranty on instrument

Testing For a Gas Leak

1. Turn instrument ON and allow it to warm up (approximately 60 seconds).
2. The instrument is ready to check for gas leaks after the audible alarm begins to beep. Note that the instrument starts in its high-sensitivity mode.
3. Check for the presence of gas by positioning the tip of the flexible probe near the area to be tested.
4. An increase in the relative concentration of gas is indicated by the visual alarm's LED blinking faster and the audible alarm's beep rate increasing.
5. Once the presence of the gas has been confirmed, the instrument's sensitivity can be lowered by double pressing the ON/OFF button (a decreasing frequency tone should be heard), allowing the location of the leak to be easily pinpointed.

Replacement Parts

Replacement parts can be obtained by contacting one of Bacharach's Sales/Service Centers listed on the back cover of this manual.

Item	Part No.
Sensor	19-0575
Sensor Cover . .	19-0576
Battery Door . . .	19-0577

Replacing the Sensor

Replace the sensor if a sensor error occurs (Visual Alarm LED flashing green and red), or when the instrument can no longer detect a known source of combustible gas.

1. Turn instrument OFF.
2. Pull off sensor cover.
3. Pull out old sensor and discard.
4. Plug in new sensor, being sure to align tab on sensor with notch in sensor socket.
5. Install sensor cover.