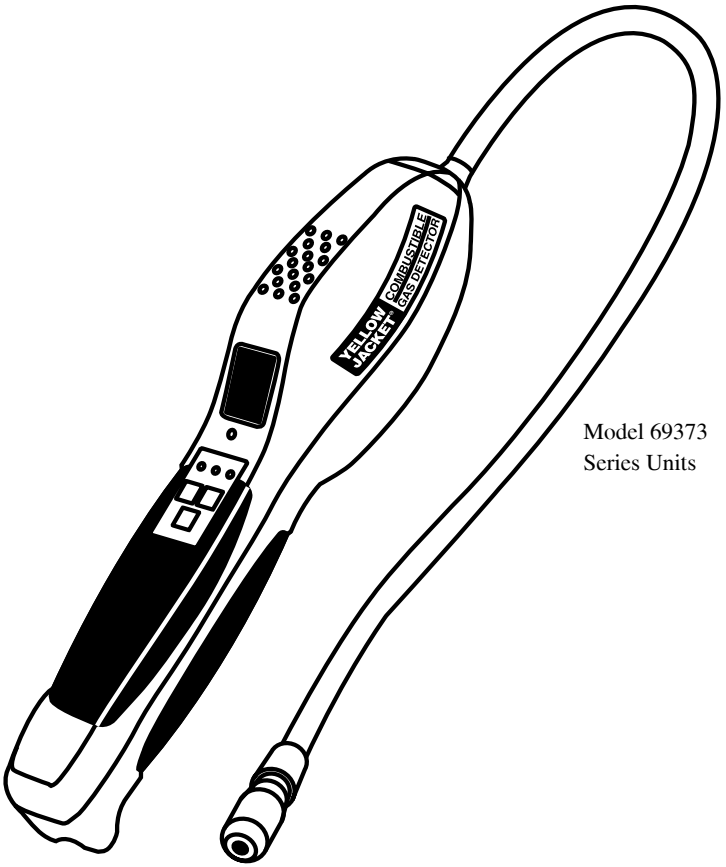
YELLOW JACKET®

Combustible Gas Leak Detector

Instruction and Operation Manual – Page 2

Detector De Fugas De Gas Combustible



Model 69373
Series Units

INTRODUCTION

The YELLOW JACKET® model 69373 hand-held combustible gas Leak Detector detects all hydrocarbon and other combustible gases including propane, methane (natural gas) butane (see list on page 6). Its state of the art sensor utilizes the latest technology to achieve superior sensitivity with instantaneous response time, yet rugged enough to withstand years of use even in the toughest environments. The sensor's low power consumption allows for long battery life using standard AA alkaline batteries.

The 69373's advanced electronic circuitry is entirely automatic, requiring no manual adjustments and features multiple sensitivity levels and audio and visual display to indicate the leak strength. Its sleek ergonomic design includes a long flexible probe easy to use in both close and hard to reach areas.

The 69373 is designed to make leak detection fast and reliable in a wide range of applications including residential and commercial combustion appliances, gas lines and pipes, heat exchangers and numerous other applications – see list on page 6.

Table of Contents

CAUTION:

This instrument is intended to be used by professional personnel only, who are properly trained in the industry where it will be used.

FOR YOUR SAFETY:

- Always approach a suspect area or room with the leak detector turned on.
- Always check your instrument for proper operation on a known combustible source.
- Always change batteries in an area known to be non-hazardous

Parts and controls

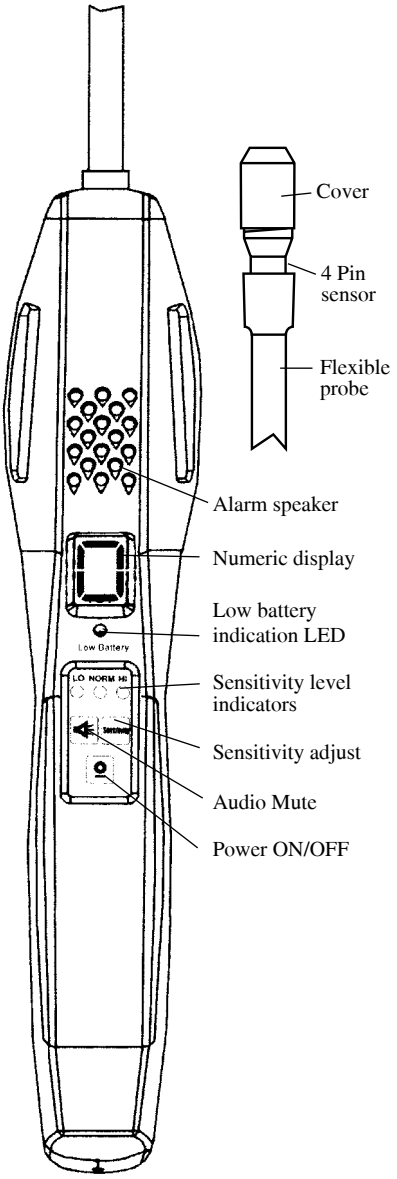


Figure 1

Features

- 500-hour sensor with low power consumption
- Very high sensitivity detects less than 5 ppm methane
- Detects all Hydrocarbon and other combustible gases
- Automatic calibration and auto zeroing
- Operates on (4) standard AA alkaline batteries
- Multiple sensitivity level settings
- 24 month warranty
- Sleek ergonomic design
- CE Certified
- Simple to use, accurate
- Intrinsically safe – MSHA Approved – Class 1, Division 1, Group D (Methane-Air Mixtures)

Specifications

Sensitivity: (table)	5 ppm methane or better 2 ppm propane
Response time	Instantaneous
Warm-up time	<25 seconds
Power:	4 AA alkaline batteries
Probe Length	17 inches (434mm)
Calibration	Automatic
Sensor Life	>500 hours
Length (body)	10 inches (250mm)
Weight	16 ounces (0.45 Kg)
Battery Life	20 hours continuous
Operating Temp. range	0 to 125° F (0 to 52° C)

Battery Installation

1. Loosen battery door screw located on the bottom of the detector to remove the batteries.
2. Install 4 AA Alkaline batteries observing the proper battery polarity as labeled inside the battery compartment and shown in Fig. 2
3. Reinstall the battery door and tighten the screw.

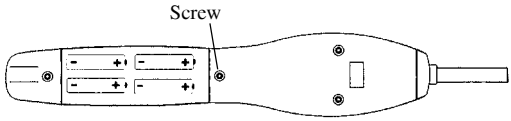


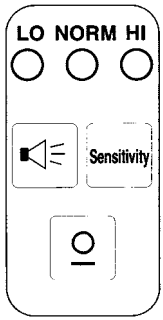
Figure 2

Operating Instructions

1. **POWER ON:** The detector is turned **ON** and **OFF** by pressing the **POWER** button on the keypad (see Figure 3).

2. **WARM-UP:** The detector automatically starts heating the sensor to condition it for use. While in this WARM UP phase – and until ready – the instrument will signal **audibly** by beeping slowly and **visually** by flashing the sensitivity LEDs. Warm up time is usually less than 25 SECONDS.
3. **SEARCH**: When ready for searching, the beep rate will increase and the sensitivity LEDs will stop flashing. When a leak is detected the beeping sound will increase in frequency and the numeric display will turn on indicating the leak size. If no leak is detected go to **HIGH Sensitivity** and continue searching.

If the audio alarm sounds before the location of a leak can be found, it is likely that the ambient air is contaminated with heavy concentrations of gas. In this case decrease the sensitivity level by selecting the **LOW** Sensitivity level.



Adjusting the sensitivity levels

To choose another sensitivity level, press the Sensitivity button. The corresponding LED will change, indicating the new setting.

"LOW BATTERY" LED indicator

Replace the batteries when the red LED above the keypad (see Fig 1) comes on and stays on. Follow instructions under section titled "Battery Installation".

Audio alarm mute

To silence the audio alarm, press the MUTE button. Press the MUTE button again to restore the audio alarm.

Maintenance

Batteries:

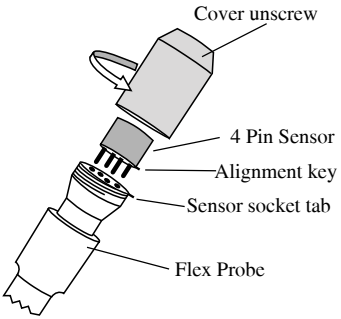
Replace the batteries when the Low Battery LED turns on. See Battery Installation Section

Sensor replacement:

TO REMOVE SENSOR:
Remove the sensor cover by unscrewing it as shown below. Carefully remove 4-pin sensor by lifting sensor up out of the socket.

TO REPLACE SENSOR:

1. Align 4 sensor pins with 4 holes in sensor socket. **Note:** S*ensor is keyed and must be installed so that the sensor tab aligns with the tab on the sensor socket.*



2. Carefully push the sensor down about 3/16" into the socket firmly. Re-install sensor cover by screwing it back on till snug. **Note:** *DO NOT over tighten.*

List of Applications

- Find leaks in gas lines and pipes
- Propane filling stations
- Find leaks in gas heating systems
- Use on combustion appliances
- Detect hydrocarbon refrigerants
- Gas lines
- Find leaks in heat exchangers
- Check marine bilges
- Check manholes for safety
- Check function of catalytic converter
- Find fuel leaks
- Use for indoor air quality testing

Partial List of Detectable Gases

- Methane
- Propane
- Ethane
- Butane
- Hydrogen
- Ethylene
- Ethanol
- Iso-Butane
- Methanol
- Gasoline
- Acetylene
- Methyl Ether
- Ammonia
- H. Sulfide
- Industrial solvents
- Benzene
- Acetone
- Toluene
- Xylene

Troubleshooting Guide

PROBLEM	PROBABLE CAUSE	WHAT TO DO
No power	• Check for weak or reversed batteries	• Replace batteries
Unit Stays in "warm-up"mode	• Sensor not plugged into socket correctly • Sensor open/defective	• Re-install sensor • Replace sensor
No detection	• Sensor needs replacing	• Replace sensor

Replacement Parts

ITEM	PART NUMBER
Sensor	69371
Sensor Cover	69372
Carry Case (Optional)	69387
Battery Cover and Screw	69347

24 MONTH LIMITED WARRANTY

Ritchie Engineering guarantees YELLOW JACKET® 69373 COMBUSTIBLE GAS Leak Detector to be free of defective material and workmanship that would affect the life of the product under normal use for the purpose for which it was designed. This warranty does not cover items that have been altered, abused, misused, improperly maintained or returned solely in need of field service maintenance. This warranty excludes the sensor, which is warranted for one year.

If found defective, we will upon compliance with the following instructions, credit, replace or repair at our option, the defective 69373 leak detector provided it is returned within 24 months of the date of sale. 69373 leak detectors have a date of manufacture serial number label (located on the product in the battery compartment).

Correction in the manner provided above shall constitute a fulfillment of all liabilities with respect for the quality, material and workmanship of the product.

THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES OF QUALITY, WHETHER WRITTEN, ORAL OR IMPLIED.

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