

GAS LEAK DETECTOR Model: FD-91

FORENSICS DETECTORS™

**FORENSICS
DETECTORS**



**** ATTENTION ****

- KEEP DETECTOR AWAY FROM ELECTROMAGNETIC INTERFERENCES (i.e. PHONES & MAGNETS)
- STORE DETECTOR WITHIN SPECIFICATIONS
- DO NOT INHALE ANY GAS LEAKS
- IF UNWELL, SEEK CLEAN AIR & HELP
- DO NOT OPEN THE UNIT
- KEEP AWAY FROM DUST AND CHEMICALS
- BE VERY CAREFULLY WHEN UNDERTAKING A MEASUREMENT OF GAS LEAKS
- SENSOR HEAD IS HEATED BE CAREFUL
- NOT A PERSONAL PROTECTION DEVICE

INTRODUCTION

You have purchased the **GAS LEAK DETECTOR FD-91** by **FORENSICS DETECTORS™**. This unit employs a Made in Japan semiconducting metal oxide sensor that detects all combustible gases especially methane (natural gas). This detector is a great choice for engineers, technicians and inspectors to determine gas leaks and confirm any residual combustibles. To be used in oil, coal, construction, residential, gas transmission, agriculture and business industries.

BATTERY POWER

Your gas leak detector is powered by 3 x AAA 1.5V. To preserve power, the unit turns auto-off after 10 minutes.

OPERATION

Press the POWER (red) button to begin. Ensure turn-on occurs in fresh air. A 30 second countdown will begin. Before taking a measurement, ensure the display is reading 00.00 %LEL or 0000 ppm. If it is not, a ZERO calibration is required. Press the ZERO button and then depress it, the display will now read 0000 and detection can begin. Slowly approach the area of inspection. Place the sensor head close to the area of inspection and hold for a few seconds. Depending on the size of the leak, reaction times will vary. Be patient. If a cross-wind or draft is present, slower more careful measurement is necessary. If a reading and alarm is triggered take action as any gas leak should be taken very serious. Press the POWER (red) button to turn OFF.

SENS button: SENS-L and SENS-H, adjust sensitivity. If max sensitivity is required, ensure on SENS-H.

PPM/%LEL button: Change the unit of measure to display either part per million (ppm) or %LEL (lower explosive limit). Note the device is calibrated to methane CH₄ and correcting factors to the displays will be necessary if detecting other combustibles such as propane, butane or others. See product listing on the FD website for correcting factors.

C/F button: changes the temperature unit of measure.

ZERO button: press to undertake a ZERO calibration.

SPEAKER button: enables /disables audible alarm. Alarm is triggered when reading exceeds 1000ppm or 2%LEL.

PPM or LEL

Solid
Gooseneck

Bar Graph
Level &
Numeric

Sensor
Head

Made in
Japan
Metal Oxide
Sensor

Large Color
Display

Fast ZERO
Function

Rubber
Buttons

3 x AAA
Batteries



SPECIFICATIONS

Detectable Gases and Vapors: Acetone, Acetylene, Alcohol, Ammonia, Benzene, Butane, Ethanol, Ethylene, Oxide, Gasoline, Hexane, Hydrogen, Methane, Naphtha, Natural Gas, Paint Thinners, Propane, Solvents

Range (Methane Calibration):
0-9999ppm or 00.00-20.00%LEL

Accuracy: 10% F.S.

Sensor: Figaro Semiconducting Metal Oxide TGS2611

Response Time: <2 seconds

Warm up: 30 seconds

Display: numeric ppm or %LEL and bar graph

Alarm: Visible and Audible

Alarm Point: 1000ppm or 2%LEL

Zero Calibration: Auto and Manual

Auto Off: Yes after 10 minutes

Dimensions: 6 x 2.4 x 1.2 inches

Weight: 11 oz.

Power: 3 x AAA 1.5V Batteries

Temperature: 30-122F

Working Humidity: 10%-90%RH

Gooseneck Length: 10 inches

Packing Items: Detector, Manual & Batteries

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Product Made in China

Manual Printed in the USA

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