NGD268

OPERATING INSTRUCTIONS
NATURAL GAS DETECTOR



Read this manual thoroughly before use

DESCRIPTION:

This gas detector has been designed for industrial use. It is a high performance instrument with a wide detecting range. It can be used to detect methane, natural gasses, propane, LPG, Hydrogen and other combustible gasses. It can be used to help find gas leaking sources easily.

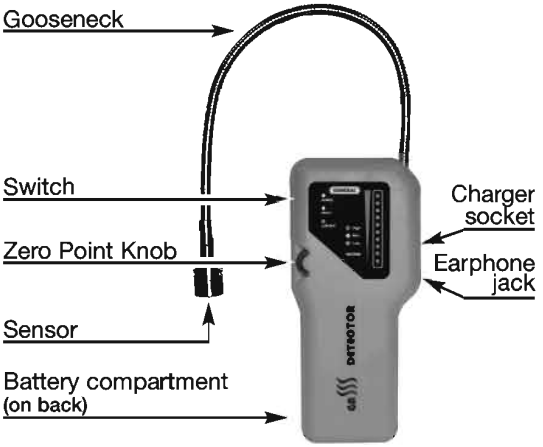
FEATURES:

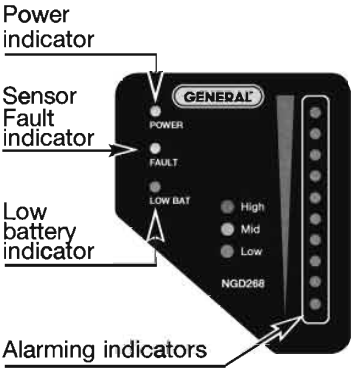
- Quick response to combustible gas leaks
- Long and flexible gooseneck probe
- Adjustable sensitivity
- 30 Level light / Tricolor LED indication
- Low battery alarm indication
- Sensor self fault detection
- High concentration protection

SPECIFICATIONS:

Gasses Detected	Natural gas, LPG
Sensitivity	<50ppm
Operating Environment	-40° to 158°F (-40° to 70°C)
Preheating Time	20s
Response Time	<10s
Visual Indication	Power - Green LED Orange – Excessive low power warning Gas concentration alarm- ten levels gas leakage volume LED indicating combustible concentrations
Alarm Level	Low level - 20%LEL High level - 50%LEL
Battery	4.8V/1600mAh nickel-hydrogen rechargeable battery
Charge Time	4-6 hours
Battery Life	up to 8 hours (approx.)
Weight	12.4oz (350G)
Dimensions	6.7" x 2.4" x 1" (170mm x 62mm x 26mm)

FUNCTIONS AND INDICATION:





OPERATING INSTRUCTIONS:

Self-Test
Indication LED: Switch on the power, the LED indicators will light in sequence. Conditions are 10 levels green, 10 levels yellow, 10 levels red.
Preheating time is 20 seconds.

Zero Adjust Detection
Adjust this knob clockwise - the LED will turn off; adjust knob counter-clockwise the LED will turn on. The maximum knob rotation is 270 degrees. Avoid turning knob quickly or forcefully.

Detection
When the gooseneck probe with sensor enters into the room to be monitored, the quantity of lighted LED and change in buzzer frequency indicates gas concentration in the room being detected. Following a gas concentration rise, green LED's will light in sequence and buzzer frequency will also increase. When the gas concentration exceeds the prior 10 level detection, the first alarm LED will change to yellow and all of the green LED's will sequentially change to yellow following higher and higher concentrations. If the gas concentration continually rises, the first alarm LED will change to red. This may continue until all LED's become red. This is the highest level of detection concentration.

Battery Charging
The unit has a 4.8V rechargeable battery as the power supply. This may work up to or more than 8 hours on a single charge.

Battery Power Testing
The unit tests the battery when power is turned on. When the power is too low, the unit will enter a power saving mode automatically. Turn off the unit and charge immediately.

Low Voltage State
Under the low voltage status, the unit may operate for up to 15 minutes. Then it will automatically turn off. The unit cannot work normally due to low voltage. Recharge the unit as necessary.

Charging
When the unit is powered off, connect the AC adaptor to the unit and plug into a 110V power source. The Red charging indicator will be lit during charge. When the charge is complete the green light will be displayed. Charging time is about 4-6 hours.
Note: Do not charge the unit when it is on. Do not frequently turn off or on during charging or the unit or batteries may be destroyed.

Fault
If a sensor fault occurs, there will be no reaction to the tested gas and the fault LED will turn on. All of the Alarm LED's will remain off. The buzzer will give a "di di" sound.

Mute
Place the switch to the middle. The alarm sound will shut off. The unit will continue to operate and display as normal.

Note: Do not drop or rattle unit. Do not us if there is caustic gasses, lampblack, dust or rain. If there is an interfering high-concentration gas present, the unit may not work normally. If there is no reaction for a long time, turn the unit off and then re-start. It may be necessary to recharge first. To assure the units accuracy, it is recommended that you have the unit calibrated. Typicalcalibration period should be one year. The working life of the sensor is typically two years under normal operating conditions.



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NGD268 Operating Instructions.
Specifications subject to change without notice

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NOTICE - WE ARE NOT RESPONSIBLE FOR TYPOGRAPHICAL ERRORS.

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