

DGS-10 COMBUSTIBLE GAS LEAK DETECTOR

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OPERATING INSTRUCTIONS

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GENERAL DESCRIPTION

The **DGS-10** is an advanced state-of-the-art leak detector capable of detecting many combustible, non-combustible and toxic gases.

The following is a partial list of gases that the **DGS-10** is sensitive to:
Acetone, Alcohol, Ammonia, Steam, Carbon Monoxide*, Butane, Gasoline, jet Fuel, Hydrogen Sulfide, Smoke, Industrial Solvents, Methane, Lacquer Thinner, Napththa, Propane, Natural Gas.

*Not to be used to quantify the presence of Carbon Monoxide (Co) because it is a Toxic gas and above 35 to 50ppm is harmful to health. If you have reason to believe you may have Co leakage specialist equipment must be used specific to that gas.

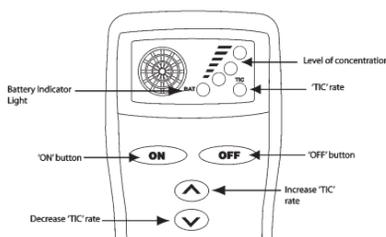
SPECIFICATIONS

Power Supply:	9v Alkaline Battery
Sensor:	Solid State
Sensitivity:	10 ppm methane
Warm up:	Approx 1 minute
Response time:	Instantaneous
Duty Cycle:	Continuous
Battery Life:	Approx. 3000 x 20 Second Readings
Size:	3.0" x 6.5" x 1.5"
	(77 x 170 x 40) mm
Weight:	1.1b (450g)
Probe Length:	16" (406mm)

GENERAL OPERATION

1. Turn the unit on in an uncontaminated environment (clean air away from the system in question) by pressing the ON key.
2. The GREEN ready light will illuminate if there is ample battery power. The RED LED may flicker and the tic sound may modulate during the warm-up period. The warm up will take approximately 40 to 60 secs, after which the tic rate will automatically settle to a steady rate.
3. The TIC RATE MAY BE ADJUSTED by pressing the 'up' / 'down' arrows until a suitable, uniform ticking sound is heard. The RED light will flash at the same time the tic sounds.

4. Approach the suspected leak areas with the sensor until the tic begins to increase. When the tic increases, do not move the sensor from the area, use the arrow keys to slow the ticking and continue to approach the suspected leak area with the sensor. Continue to slow the tic until the location of the leak is found. If the tic stops, the concentration level has decreased. Move back in the opposite direction to find the leak again.
5. If the GREEN LED flickers, change the batteries. (see battery replacement)
6. If the instrument does not perform or it has been damaged, follow the Operation Check section of this manual.



BATTERY REPLACEMENT

1. Remove the Protective Rubber Boot by slipping it away from the bottom of the case and sliding it along the flexible goose neck exposing the case back.
2. Remove the battery compartment cover from the bottom of the case by removing the 2 screws.
3. Remove the battery and replace with an Alkaline MN 1604 9 volt battery (or equivalent). Be sure to connect the negative (-) and positive (+) terminals of the battery the correct way around in the battery connector.
4. Replace the battery cover in position by using the two screws. Take care not to over tighten the screws or you may break the case.
5. For best results and longer life always use quality alkaline batteries MN 1604 or equivalent.

OPERATION CHECK

To verify the operation of the **AGM-50** simply turn the unit on and allow it to warm up for approximately one minute. Expose the sensor to a gas source as previously referred to under General Description. The tic should increase when the gas is applied. The tic will decrease when the gas is removed. If the unit fails to respond, the sensor may need replacing or the unit may need to be sent in for repair:

CAUTION: This unit must be sent to a factory authorised repair centre for all repairs.

STANDARD ACCESSORIES

Your **AGM-50** is supplied complete with:

- Protective Rubber Boot
- 9 volt Alkaline Battery
- Instruction Manual

WARRANTY

This instrument has been carefully assembled and tested, and is warranted against faulty workmanship and materials for two years from the date of purchase. During the warranty period any defective instrument will be repaired or replaced at the discretion of the manufacturer. This warranty does not cover damage or failure resulting from misuse or accident. Modification, adjustment or any alteration with the internal arrangement of the instrument shall absolve the manufacturer from any liability in respect of the instrument. Any instrument to be repaired should be forwarded to the supplier, carriage paid and at the owner's risk. A brief description of the fault should be included.