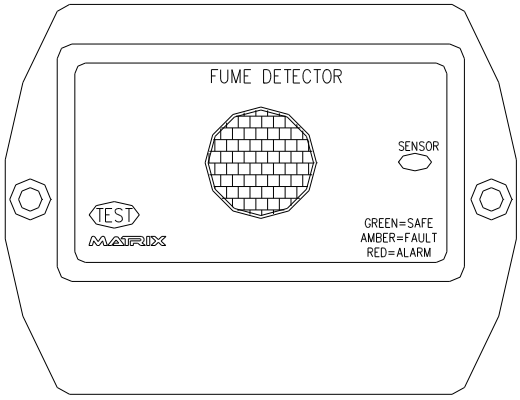
600-GDRV

600 SERIES

FUME DETECTOR

INSTALLATION
AND
OPERATING INSTRUCTIONS



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1 Warranty

The warranty of this BEP MARINE LTD product is for Two Years from date of sale to original purchaser. BEP MARIN assume the cost of removal or refitting of the product, or any other incidental cost that may arise, as the result of def workmanship.

Warranty will only be undertaken on equipment returned to either BEP MARINE LTD or their agent. The equipment v repaired at the discretion of either BEP MARINE LTD or its agents. Warranty is void if the equipment has neither been (1) Abused (2) Wron connected (3) Contaminated due to neglect (4) Improper installation, (5) Used in violation of instructions supplied wit manufactured by BEP MARINE LTD. On return of equipment for warranty it must be accompanied with proof of purc tampered with.

2 Important

It is the installer's sole responsibility to install and use this product in a manner that will not cause accidents, persona damage. Please follow the installation instructions supplied. If installation is not correct, the unit may not perform at it potential. If in doubt, consult your local BEP MARINE LTD dealer. BEP MARINE LTD disclaims all liability for any us that may cause accidents, damage or be in violation of any laws.

3 Cautions when using gas sensors

1. Exposure to silicone vapours
   If silicone vapours adsorb onto the sensor's surface, the internal sensing element maybe be coated, irreversibly sensitivity. Avoid exposure where silicone adhesives, hair grooming materials or silicone rubber/putty may be pr

2. Highly corrosive environment
   Exposure to corrosive materials such as SO_x, H_2S, HCl, etc. for extended periods may cause irreversible damage to th sensor.

3. Water
   Sensor performance maybe adversely affected due to soaking, splashing or water condensing on the sensor sur salt water spray will adversely affected sensor performance.
   Light condensation under conditions of indoor usage should not pose a problem for sensor performance.

4. Freezing
   If freezing occurs on the sensor's surface irreversible damage may occur to the internal sensing element.

5. Usage in high density of gas
   Sensor performance maybe adversely affected if exposed to a high density of gas for a long period of time.

6. Explosive Limits
   Different combustible gasses have their own Lower Explosive Limits (LEL). Our gas sensors are calibrated agair in Air.

7. False positive alarms
   False positive alarms can be caused by differing concentrations of various aerosols, perfumes, resins, epoxies, alcohol, hydrogen, gases and fuels.

4 Features

The GDRV fume detector offers the following features: –

- Self testing capability
- Microprocessor control
- Single sensor mounted in front facia.
- Audible and visual alarms

5 Specification

Voltage: 10V-30V DC
Current: Total 350mA Max
Alarm: 20% LEL (Lower Explosive Limit)

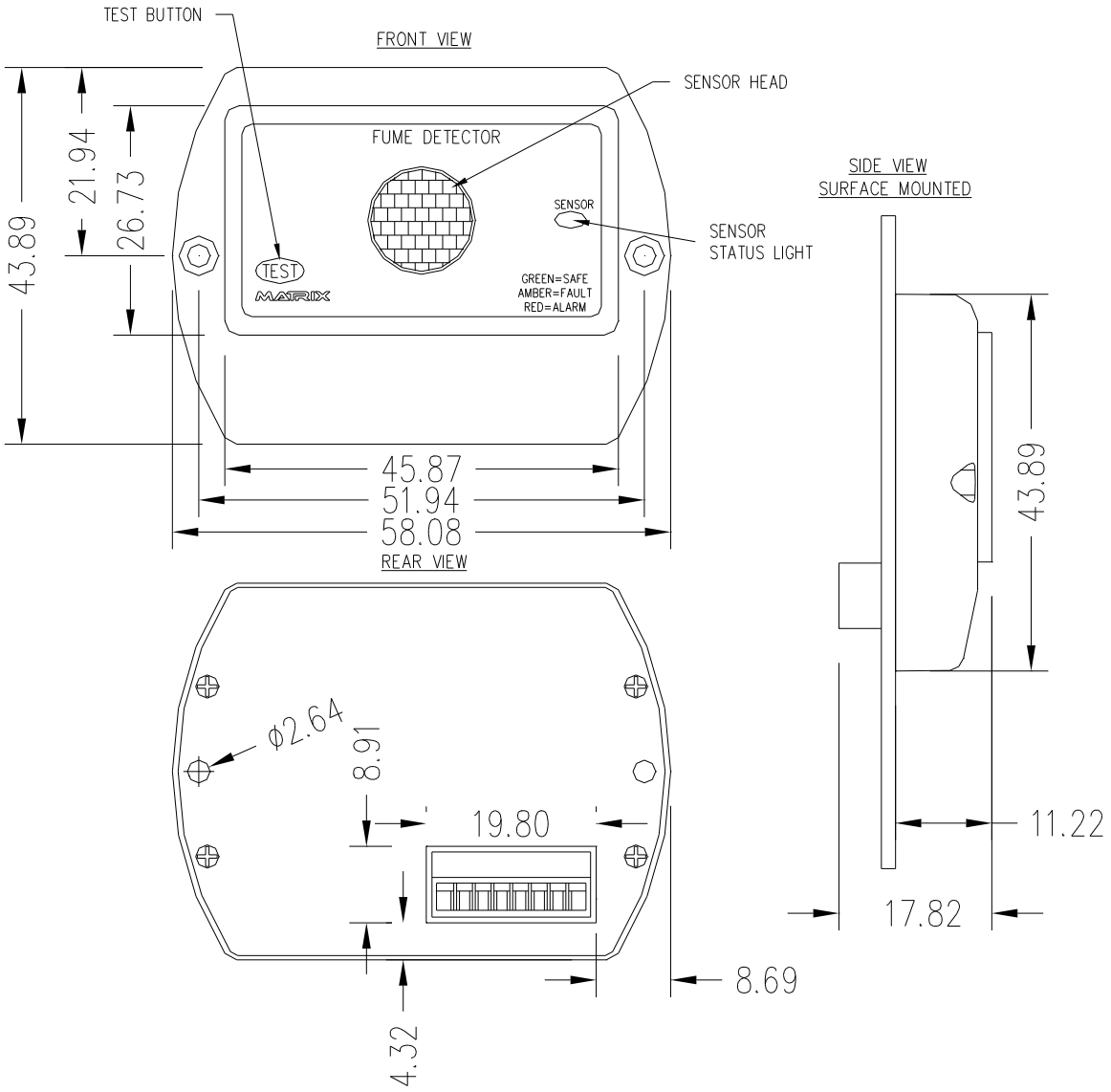
6 Fault Detection

The nominal alarm point of the GDRV is 20% of the LEL (Lower Explosive Limit) of LPG/CNG in Air. In the event of a alarm activating, close the manual valve on your gas bottles and open hatches to ventilate the area. All fans and blo ventilate must be ignition-protected types.

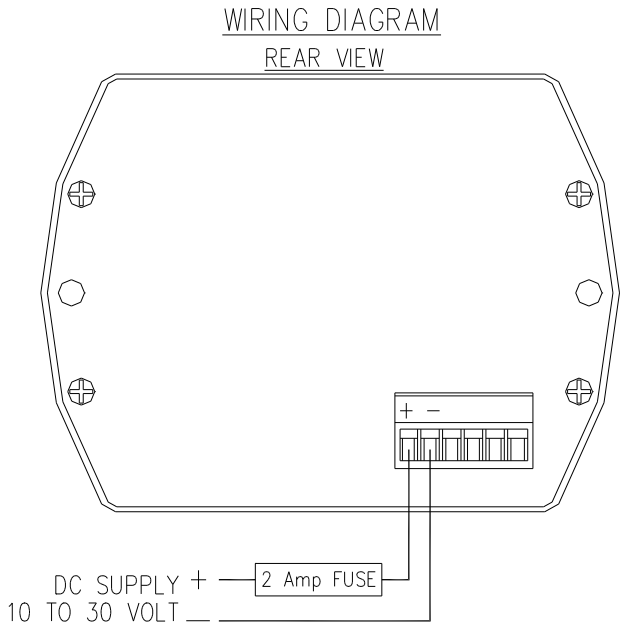
In the event of the sensor being contaminated or damaged the amber light will come on for the sensor. If the sensor the sensor could be damaged and will need to be replaced.

In detecting LPG the sensor can also detect hydrocarbons in other products such as cleaners and strong adhesives, nuisance alarms. See section 3 - ‘Cautions when using gas sensors’ for more details.

7 Dimensions



8 Wiring Diagram



9 Installation

For ease of operation, the unit should be mounted in a convenient position close to your gas appliances and in a pos
control head can be seen and heard easily. The unit can be either surface mounted or recessed into a 2.5mm panel.

- For LPG and Petrol fumes, which are heavier than air, mount the sensor in a low dry position where the gas is lik
  sensor must be mounted clear of bilge water.

  NOTE: If the sensor gets wet then the sensor becomes inoperable and must be replaced.

- For CNG, which is lighter than air, mount the unit just below ceiling height but not above cooking or heating appli

10 Operation

On applying power to the unit, the unit goes through a test cycle. This will take approximately 45 seconds. During thi
is being cleaned and tested, at this time there will be a slow beep from the audible alarm and all the lights will flash a
end of this period the pulse of the beeper and light will increase, if the unit senses that the environment is clear then
safe mode. The beeper will turn off and the sensor light will change to green.

11 Test Button

When operated in normal operation it will -

- Sounds the keyboard beeper
- Turn light red

Pressing the switch again cancels the above.

12 Indicator Display

SENSOR #1

Green:	Sensor on safe, no fumes, no beeping
Amber:	Sensor fault, slow beeping
Red:	Alarm. Gas present, fast beeping

AUDIBLE ALARM SOUNDS

Warming up:	Medium slow, all lights flash amber
Alarm:	Fast, sensor lights red
Fault:	Slow, sensor lights amber

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