

LPG Alarm & Control System for Boats

WG100-L-V

USER INSTRUCTIONS

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SPECIFICATION

Model	WG100-L-V
Gas Detected	LPG (butane/propane)
Alarm Level	~10% LEL (LEL = Lower Explosive Limit)
Supply Voltage	12/24Vdc (10 to 32V)
Low Voltage Warning	10V
Fuse Rating	3A or 3.15A quick blow (5x20mm)
Current Draw	60mA (normal operation) 120mA (alarm)
Relay Output	SPCO, non-latching (Single Pole Change Over) 1A, 24V contact rating
Buzzer Drive	300mA max (at supply voltage)
Temperature Range	-10°C to +40°C
Valve Drive	2A max (at supply voltage)

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WARNINGS



- ▲ Sensors must only be used to detect gas/vapour marked on sensor
- ▲ Test system regularly by pushing test button
- ▲ As with all gas/vapour alarms, test regularly with the gas or vapour to be detected
- ▲ Although LPG and Petrol Vapour sensors are not damaged by water, they cannot detect gas/vapour when submerged
- ▲ Avoid prolonged contact with petrol, diesel and oil
- ▲ Do not clean sensors with solvents or cleaners
- ▲ Exposing sensors to solvents (eg paints, varnishes) or alcohol (eg cooking with alcohol, perfume) may cause false alarms
- ▲ Only replace fuse with type and rating specified

GUARANTEE

This unit is guaranteed for one year from the date of purchase to be free from defects in materials and workmanship under normal use and service. We will, at our discretion, repair, replace, or refund the price of any part of the unit which is found to be defective during the period of guarantee. This guarantee does not affect your statutory rights.

OPERATION

Warm-up

The green "POWER" lamp flashes once per second while the system is warming up. This period is typically 1 to 2 minutes but can vary with ambient conditions. The system does not detect gas and the gas supply cannot be turned on during the warm-up period.

Normal Operation

When the system is ready to detect gas the green "POWER" lamp lights continuously.

Gas Control

The push button on the Control Panel labelled "GAS" controls the electrical gas valve and is used to turn the gas supply on and off as required. The red lamp on the button lights when the gas is on. For safety reasons the gas cannot be turned on during the warm-up and alarm conditions.

NOTE: the gas valve can continue to be used when a fault is being indicated. Great care must be taken in this situation as a faulty sensor will not detect gas.

Alarm Condition

When gas is detected the red "ALARM" lamp will flash and the buzzer will sound. If open, the gas valve will automatically close.

The alarm buzzer can be hushed (muted) by pushing

and holding the "TEST/HUSH" button for 3 seconds.

The system automatically resets and the alarm lamp goes out as soon as the alarm condition has cleared. The gas supply can then be turned on and off again as required using the push button on the Control Panel.

Test Button

The system can be tested at any time by pushing the "TEST" button. The "ALARM" lamp should flash, the buzzer should sound and the gas valve should close.

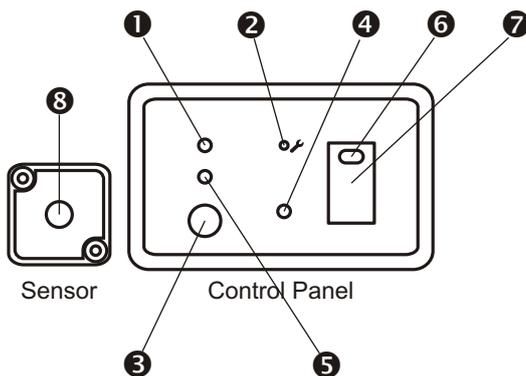
Fault Indication

The system automatically checks for faults. If a fault is detected (eg broken sensor wire) the yellow fault lamp "⚡" will light and the buzzer will chirp once every 5 seconds. A sensor fault (or sensor wire fault) is indicated by the alarm lamp flashing once every 5 seconds.

Low Voltage Warning

If the supply voltage to the system falls below the minimum required, the yellow fault lamp "⚡" will light, the green "POWER" lamp will flash and the buzzer will chirp once every 5 seconds. The system does not detect gas when the low voltage warning is being given.

WG100-L-V



- 1 Power / Warm-up Lamp (green)
- 2 Fault Lamp (yellow)
- 3 Test / Hush Button
- 4 Buzzer Outlet
- 5 Alarm Lamp (red)
- 6 Gas On Lamp (red)
- 7 Gas Control Push Button
- 8 Sensor Gas Inlet

Hushing the Buzzer

To hush (mute) the buzzer in the alarm or fault conditions push and hold the "TEST/HUSH" button. The system will first enter the test mode and then after 3 seconds the buzzer will be hushed.

NOTE: if a new event occurs (eg new alarm or fault) the hushed buzzer will sound again to warn of the new event. The buzzer can again be hushed if necessary.

MAINTENANCE

The system is factory calibrated and requires no user adjustment.

Ensure that front of sensor is kept clear.