

# LPG & Carbon Monoxide Alarm System for Boats

## WG300-LLC

## USER INSTRUCTIONS

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## SPECIFICATION

<b>Model</b>	WG300-LLC
<b>Gases Detected:</b>	
<b>Sensors 1 &amp; 2</b>	LPG (butane/propane)
<b>Alarm Level</b>	~10% LEL (LEL = Lower Explosive Limit)
<b>Sensor 3</b>	Carbon Monoxide (CO)
<b>Alarm Level</b>	50ppm for 60 to 90 mins 100ppm for 10 to 40 mins 300ppm for 1 to 3 mins (ppm = Parts Per Million)
<b>Supply Voltage</b>	12/24Vdc (10 to 32V)
<b>Low Voltage Warning</b>	10V
<b>Fuse Rating</b>	3A or 3.15A quick blow (5x20mm)
<b>Current Draw</b>	140mA (normal operation) 200mA (alarm)
<b>Relay Output</b>	SPCO, non-latching (Single Pole Change Over) 1A, 24V contact rating
<b>Buzzer Drive</b>	300mA max (at supply voltage)
<b>Temperature Range</b>	-10°C to +40°C



## 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 during the warm-up period.

### Normal Operation

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

### Alarm Condition

When gas is detected the red "ALARM" lamp(s) will flash and the buzzer will sound. Multi-sensor units have a separate alarm lamp for each sensor.

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(s) go out as soon as the alarm condition has cleared.

### Test Button

The system can be tested at any time by pushing the "TEST" button. The "ALARM" lamps should flash and the buzzer should sound.

### 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 appropriate alarm lamp flashing once every 5 seconds.

### Low Voltage Warning

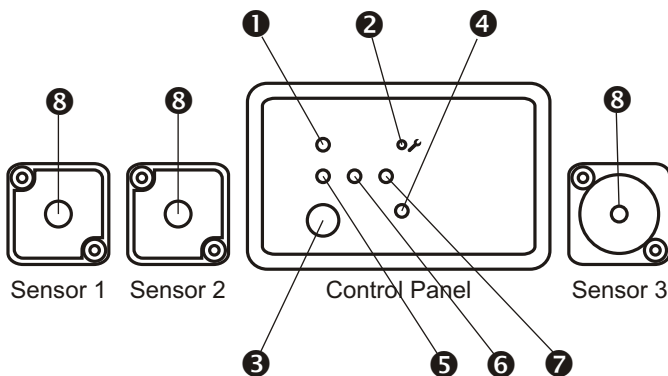
If the supply voltage to the system falls below the minimum required, the yellow fault lamp "⚡" will light, the green "POWER" lamp will flash and the buzzer will chirp once every 5 seconds. The system does not detect gas when the low voltage warning is being given.

### 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.

## WG300-LLC



- ❶ Power / Warm-up Lamp (green)
- ❷ Fault Lamp (yellow)
- ❸ Test / Hush Button
- ❹ Buzzer Outlet
- ❺ Sensor 1 Alarm Lamp (red)
- ❻ Sensor 2 Alarm Lamp (red)
- ❼ Sensor 3 Alarm Lamp (red)
- ❽ Sensor Gas Inlet

## MAINTENANCE

The system is factory calibrated and requires no user adjustment.

Ensure that front of sensors are kept clear.

**Carbon monoxide sensors should be replaced after 5 years of use.**



## WARNING



A carbon monoxide alarm is not a substitute for proper installation, use and maintenance of fuel burning appliances (including appropriate ventilation and exhaust systems).