






## CHECKLIST

1. Check the instrument has no obvious faults.
2. Check accessories.
3. Read and understand handbook before use.
4. Switch ON (see overleaf)
5. Check battery levels.
6. Check "ZERO" in fresh air.

## SAFETY

- The instrument must be regularly serviced and calibrated by fully trained personnel in a safe area.
- **Batteries:** Alkaline batteries must be exchanged in a safe area and fitted correctly before use. Never use damaged batteries or expose to extreme heat.
- Only GMI replacement parts should be used.
- If the instrument detects gas, follow your own organisation's procedures and operational guidelines.
- The combustion chamber is a flameproof assembly and must not be opened in the presence of a flammable atmosphere.
- Gascoseeker 2-500 instruments are certified as: EEx iad IIC T4 (-20°C ≤ Tamb ≤ 50°C).  
BAS01ATEX2292   II 2 G.  
 UL Class 1 Groups A, B, C and D.
- This equipment is designed and manufactured to protect against other hazards as defined in paragraph 1.2.7 of Annex II of the ATEX Directive 94/9/EC

Any right of claim relating to product liability or consequential damage to any third party against GMI is removed if the warnings are not observed.

## AREAS OF USE

Exposure to certain chemicals can result in a loss of sensitivity of the flammable sensor. Where such environments are known or suspected it is recommended that more frequent response checks are carried out. The chemical compounds that can cause loss of sensitivity include Silicones, Lead, Halogens and Sulphur. Do not use instrument in potentially hazardous atmospheres containing greater than 21% Oxygen. The enclosure material is polypropylene and must not be exposed to environments which are liable to result in mechanical or thermal degradation or to damage caused by contact with aggressive substances. Additional protection may be required in environments where the instrument enclosure is liable to damage.

## OPERATOR MESSAGES / FAULT FLAGS

Various messages can appear on the LCD screen to indicate instrument status.

### 'SAMPLE'

Indication that the pump is running and the instrument is sampling.

### 'OFF'

Indication that the instrument is about to switch OFF. Can be reset by pressing MEASURE button once.

### 'SAMPLE FAULT'

Indication that the instrument sample flow is incorrect due to sample path blockage or pump failure.

### 'CHECK ZERO'

Indication that there may have been a zero shift due to the presence of gas. Switch off the instrument and switch on again in fresh air.

### 'ZERO FAULT'

Indication that zero is outside calibration limits. Switch instrument OFF and initiate ZERO sequence with instrument in fresh air to reset zero.

### 'BAT' (Flashing)

Indication that the batteries will soon require replacement as indicated by BAT FAULT flag.

### 'BAT FAULT'


Indication that the batteries require replacement.

### 'ZERO'

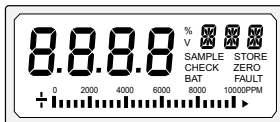
Indication that the instrument is in the ZERO mode.

## OPERATION

### Switch ON

Press MEASURE Button  once to switch instrument ON. Instrument performs self-check and start-up sequence. Pump also operates for a short period during this sequence.

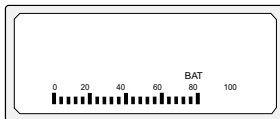
All LCD segments are displayed:



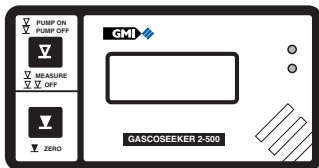
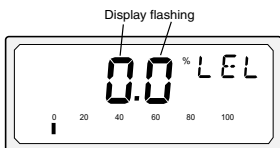
The following display indicates instrument version identifier and software version number:




A bar graph indicates battery capacity and background illumination is activated:



After a few seconds the instrument is ready for use, indicated by a flashing digital display:



### Sample Start


Press MEASURE Button  once to switch on pump. 'SAMPLE' flag indicates that pump is running and display shows analysis of sample:



### Sample Finish

A single press of the MEASURE button , when the pump is running, stops the pump and stops sampling. This is indicated by the absence of both 'SAMPLE' flag and flashing display.

### Switch OFF


Press the MEASURE button  twice in rapid succession to switch the instrument OFF. 'OFF' appears in the display and the instrument will shut down. (To cancel this action, press the MEASURE button once).

Switch off is automatic after 30 minutes running.



### Zero Mode

Make sure that the instrument is switched OFF and in FRESH AIR before zeroing.

Press the ZERO button  once to enter zero mode. The instrument will enter zero mode with similar test sequence to measure mode except for 'ZERO' flag, indicated in the status display as shown.

The instrument is then zeroed automatically. If this operation does not reset the zero and remove the 'ZERO FAULT' or 'CHECK ZERO' flags, the instrument should be returned to the service centre for checking.

The instrument switches OFF automatically from the ZERO mode. The instrument can only be zeroed by switching OFF from the MEASURE mode.

