

Gas Measurement Instruments, Ltd (GMI)

Gas Surveyor or 400 Series

General Description:

This instrument is designed and certified for use in hazardous areas. It has a four digit display showing both digital and analogue indications of gas levels. It has audio and visual alarms as well as data logging. The audio alarm is rated at 85 decibels (dBA) at one meter. The visual alarm is red and protrudes from the front panel such that it is visible from any angle above the front panel plane. It has an internal pump and is operated by means of four front panel push buttons allowing the user to access all features. It weighs four pounds with batteries. It has flammable, toxic, and oxygen sensors.

The instrument draws the gas sample using an internal pump. The system is controlled by a micro-controller which maintains the necessary voltage across the sensing elements, controls the pump, range selection and the display.

Operation:

The gas surveyor 400 is a dual configuration instrument. It operates as a Confined Space Monitor (CSM) or as a Combustible Gas Indicator (CGI) depending on the button that is used to switch the instrument on. For CSM operation, the instrument should be switched on by pressing and holding the top button for approximately one second and for CGI operation, it should be switched on by pressing the second top button for approximately one second.

CGI Operation:

Button One:	When operating in this mode, a single press of this button toggles the pump on and off. The display flashes when the pump is off. Two presses in quick succession will turn the instrument off.
Button two:	A single press of this button changes the gas ranges displayed. When displaying flammable 'ppm'; a double press of this button will zero that range.
Button three:	A single press of this button manually logs all of the current readings.
Button four:	This button has no function in CGI mode, however, it will beep when pressed.

Notes: In CGI mode:

- Alarms do not operate
- Instrument will automatically turn off in 30 minutes
- Any button can be pressed to cancel this automatic turn off
- Instrument will then allow another 30 minutes of use
- 'EEE' will be displayed if over 100% of Lower Explosive Limit (LEL)