



LEADERS IN GAS DETECTION



OVERVIEW

The GMI 4500 series gas monitoring and detection system has been designed incorporating the latest state of the art surface mount technology. The 4500's capability fully complements the GMI range of fixed gas detection equipment.

The main features of the system:-

- 40 Sensors per rack
- Gas and Fire Capability
- 3u High Sensor Cards
- User Friendly Set Up
- 19" Euro-rack Frame
- Programmable Relay Outputs
- Multi Channel - Flammable & Toxic Gases

SENSOR CARDS

The 4500 Sensor Card can monitor up to 4 sensors. The sensors can be flammable, toxic, oxygen deficiency or fire. The type of sensor installed is indicated by a colour coded label on the front panel. The card has a power ON, healthy L.E.D. and the alarm status of each sensor is indicated by a red LED for A1, a red LED for A2 and a yellow LED for the fault indication. The card is secured in the rack by a front panel fixing screw.

The type of sensor to be monitored by the sensor card is determined by the sensor input modules which are fitted on the sensor card. These can be installed in any configuration of flammable, toxic, oxygen deficiency or fire to meet the client's specification.

MASTER CARD

The Master Card displays the data received from the sensor cards on its LCD display. All of the gas and operating values for the 4500 system can be viewed on the display by cycling through the screens using the buttons on the keypad.

The Alarm Acknowledge and Test buttons are on the Master Card front panel.

ONE MAN CALIBRATION

Genuine One Man Calibration is available on the 4500 system by selecting Delayed Calibration on the Master Card. This allows you to apply calibration gases to one or more remote sensor heads and then return to the control panel to calibrate each of the remote sensors individually. This method of one man calibration checks the complete circuit of the detection head, cabling and control panel.

WIN4500 SOFTWARE

Win 4500 is GMI's Windows™ based software package used to view, set-up and calibrate the 4500 system. The software package is user friendly and comes complete with Help Menus. Win4500 operates on an IBM™ compatible PC with Windows 95™ software.

With GMI's many years of experience in the Fixed Gas Detection Industry, the versatility of the new GMI 4500 system means it can be customised suitable for many applications and Turn-Key projects.



4500 GAS DETECTION SYSTEM



SENSOR CARD



MASTER CARD



WIN4500 SOFTWARE

APPLICATIONS

The Main Market Areas are as follows:-

- Water Utilities
- Oil Industry
- Petrochemical
- Boiler Rooms
- Landfill
- Car Parks
- Building Management Systems
- Telecommunications
- Gas Utilities

TYPICAL PROJECTS

- Superstores - Landfill
- Multi-screen Cinemas
- Gas Power Plants
- Underground Car Parks
- Sewerage Treatment Plants
- Industrial Premises
- Retail Parks - Landfill
- Housing Developments

SYSTEMS ENGINEERING

GMI's Systems Engineering department has the capability to design and develop customised equipment to comply with individual customers requirements.

The Department will for all major contracts and projects appoint a project engineer to co-ordinate the contract with the relevant parties and will submit for approval all drawings and specifications before construction.

AFTER SALES SERVICE

GMI operates a field service department with engineers that are fully trained in the GMI range of products. The service engineers operate from fully equipped vehicles and can be contacted via their service base. The service team is backed up by Customer Service Units in Glasgow and Milton Keynes. Service contracts are available on GMI's full product range.

24 HOUR SERVICE

In order that GMI can give their customers maximum support, a 24 hour service system has been established. For customers with service contracts engineers can be contacted 24 hours a day, 365 days a year.



4500 GAS DETECTION SYSTEM

SYSTEM DESCRIPTION

GENERAL

Measured Gas	Range
Flammable	0 to 100% L.E.L.
Oxygen (O ₂)	0 - 25% v/v
Carbon Monoxide	0 - 100 p.p.m.
Hydrogen Sulphide	0 - 100 p.p.m.
Other Gases on Request	

Fire Detection
Up to 30 Detectors per Zone

Rack
Size : 483mm W x 171mm H x 300mm D
Standard : Up to 10 Sensor Cards (4 Inputs)

Temperature
-5°C to +55°C

Relative Humidity
5% to 95% RH

Accuracy
-/+ 2% full scale deflection (FSD)

Zero Stability
-/+ 2% FSD

Alarm and Fault Relays

3 Relay outputs as standard
1st level alarm
2nd level alarm
Fault
Additional 4 relays supplied as standard can be user programmed

Relay Ratings

8 Amp at 250Vac, 2000VA
8 Amp at 30 Vdc, 240W.

Power Supply

110 Vac, 240 Vac or 24 Vdc

DETECTION HEADS

Electrochemical

Temperature -10°C - +40°C
Relative Humidity 5% - 95% RH
Response Time <100 secs to T90

Pellistor

Temperature -25°C - +85°C
Relative Humidity 5% - 95% RH
Response Time <15 secs to T90

DETECTION HEAD CERTIFICATION



Certified Exsd II C T6 Certificate Number Ex 91 Y1032X

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CoGDEN



TESTING
No. 1747

