

# Single / Multi gas Alarm System

Rack Mounting Model : GD - 200



Protects **Personnel, Plants & Assets**



**IDEAL FOR METHANE, LPG/CNG, HYDROGEN, HYDROGEN SULPHIDE, CARBON MONOXIDE, AMMONIA, HYDRO CARBONS, HEXANE AND MANY MORE**

Model GD - 200 a state of the art economical gas leak alarm system of modular construction. It is expandable to any number of channels for continuous monitoring of single or multi locations for leak of toxic, smoke or explosive gases. It is designed primarily to monitor for high ambient gas conditions and is particularly useful for toxic gas monitoring of clean rooms or gas free areas, where there is minimum possibility of the presence of other interfering gases. However, specific gas filters can be added on to the sensors to reduce the cross sensitivity to undesirable background gases. It is a go / no-go type with adjustable three level alarms and is suitable for standard rack or panel mounting.

Each module / channel is a complete instrument in itself with its visual alarms & relay outputs, except for regulated power supply which is provided by the master power supply board. It has corresponding detector of application specific type. The detector is mounted at the location of interest and senses the gas, if any through diffusion. It responds to vapour or gas, toxic, explosive or smoke, with proportionate change in electrical characteristics. This change is electronically amplified and used to operate the electronic switching circuits & relay contacts. Isolated relays with NO/NC contacts are provided for signaling alarm and malfunction conditions.

Relay contacts could be typically used to actuate remote alarms, increase ventilation, shut off gas supply, or shut down a process. A suction based sampling system being employed, the sensors detectors are of very sturdy construction, with weather proof or ex-proof housings and are designed to serve for several years under normal operating conditions. When a sensor detects a concentration of gas or vapor above the first preset level, it actuate an 'ON' alarm LED. Further increase in concentration, other alarm LEDs will be progressively actuated. With this arrangement, the user can readily distinguish the area harboring a gas concentration and its levels.

## SPECIAL FEATURES

- Modular construction
- Single / multipoint monitoring
- Toxic, explosive gas, vapour, smoke monitoring system
- Three level concentration and fault alarm
- Power on LED, visual and audible alarm facility
- Remote alarm capability
- Reliable solid state circuitry
- Maintenance free fail safe operation
- Long life solid state / catalytic sensor
- Test points for alarm settings
- Optional analog or digital meter
- Weather proof or explosion proof detectors

**HNL Systems Pvt. Ltd.**

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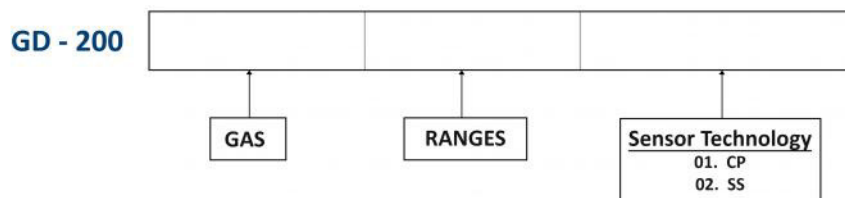
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**WORKING :** Operating from either 230V AC or 24V DC, the Model GD - 200 continuously monitors for toxic, smoke or explosive gases or vapours in the atmosphere surrounding each sensor, wherever located. It will respond to parts per million levels or lower explosive levels (as per calibration) of hydrocarbons and many toxic gases & vapours. Each detector & module circuit is collectively calibrated & internally adjusted to alarm at preset threshold. Test points on each channel are provided to check the integrity of alarm level settings.

## SPECIFICATIONS

Type	Portable
Detectable gases / parameters	O2, flammable gases, vapors and hydrogen
Electronics / processor	Analog
Power supply	Rechargeable battery 1.2 x 4 D size with charger
Display	Numeric LCD (1999 digits)
Alarm	Audio / visual
Sensor technology	EC / CC / TCD
Resolution	1 PPM / 1 %LEL / 1 %V/V
Accuracy	± 2 % for FS, 0.5 % O2
Response time	Less than 15 seconds
Operating temperature	0 - 55 °C
Sampling	Manual aspiration
Housing / case	Cast aluminum
Included accessories	Leather case, PVC tube with filter, Aspirator
	4 numbers rechargeable battery with charger
Dimensions	150 (L) x 100 (W) x 115 (H) mm

## ORDERING INFORMATION



Note : Specifications and Features will vary with application. There may be changes overtime due to continuous development process.  
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