

# Prism

## GAS MONITORING SYSTEM

### **Micro-Genius** **μG-1000**

# INDUSTRIAL SAFETY

**Micro-Genius** Micro in size, Genius in Features

**Most Economical Gas Monitoring System**

**Super Smart** Micro-controller based

**Automatic Cable Resistance Compensation**

**Bar graph LEL/LED-Meter**

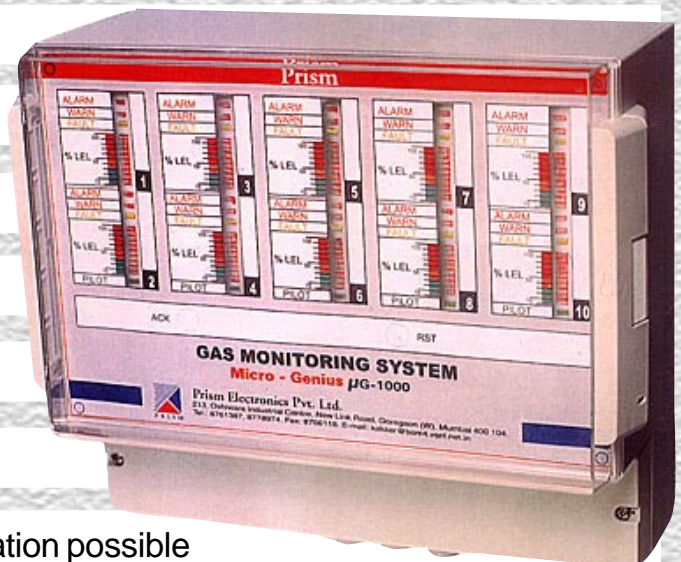
**Intrinsically Safe Sensor** Best in Safety

**Low Power Sensor** Battery / Solar Panel Operation possible

**Rugged & Proven Catalytic Combustion Sensor**

**Multi-functions achieved with magic (Software) buttons**

**All combustible gases** Hydrocarbons, LPG, Methane, Hexane, Butane, Propane, Hydrogen

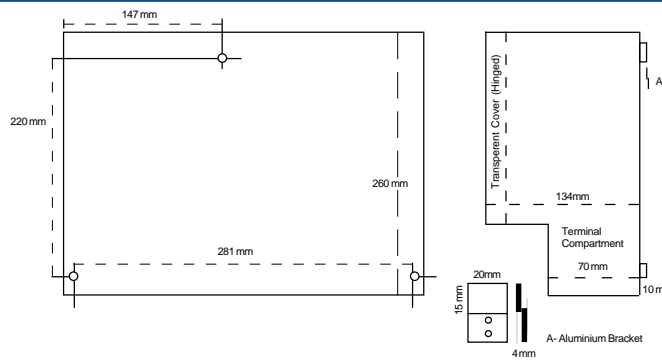


### Application

Gas utility Services, Pain Shops, Gas yards, Gas holding stations, Automobile Industries, Furnace & Boilers, Food and Agro Industry.

# SPECIFICATIONS

This is a state of the art Microcontroller based modular stationary type multi-point Combustible Gas Monitoring & Alarm System. It uses the oldest and the most common 'Catalytic Combustion' bead sensor. The Sensor is a low power unit and is certified intrinsically safe. The Sensor is a low power per channel is 750 mW. Thus it can be operated on batteries / solar panels also



Mounting and overall dimensions of monitor / indicator enclosure

**Micro-Genius**  
**μG-1000**



**PORTABLE GAS DETECTORS**  
for LPG / LNG / Oxygen

## A.SENSOR

- |                            |   |                                      |
|----------------------------|---|--------------------------------------|
| 1. Principle               | : | Catalytic Combustions                |
| 2. Certifications          | : | EEx d IIC,                           |
| 3. Cable                   | : | Three-core cable.                    |
| 4. Cable size and Distance | : | upto 1000 mtrs. 1.5mm Sq. copper.    |
| 5. Junction Box            | : | FLP, WP, IIA/IIB, CMRS/CCE Certified |

## B.INDICATOR / MONITOR MODULE

- |                           |   |  |
|---------------------------|---|--|
| 1. Type                   | : | Microcontroller based module   |
| 2. Size                   | : | 2 Channels in 1 module   |
| 3. Indications            | : | 10 segment Bar Graph equivalent to 0 to 100% LEL   |
| Per Channel               | : | Warn (Low level), Alarm (High level) : Red (LEDs)  |
|                           | : | Fault : Yellow, Pilot : Green (Common)   |
| 4. Controls               | : | Four magic push buttons to review and program all parameters.  |
| 5. Programmable Functions | : | For each Channel independently.  |
|                           | : | 1. Warn (Low level alarm) set point  |
|                           | : | 2. Alarm (High level alarm) set point  |
|                           | : | 3. Skip  |
|                           | : | 4. Alarm Delay   |
| 6. Calibration            | : | Software based, tamper proof, no tools required. Zero and Full-scale can be set independently.           |
| 7. Sensor Drive           | : | Constant current source automatically compensates for cable resistance, no voltage adjustment necessary. |
| 8. Outputs                | : | Warn, Alarm, Fault.  |

## C.SYSTEM

- |                              |   |   |
|------------------------------|---|---|
| 1. Capacity                  | : | upto 10 channels.                         |
| 2. Alarm controls            | : | Acknowledge and Reset Push Button.        |
| 3. Audio Alarm               | : | Piezo hooter mounted externally.          |
| 4. Power Supply              | : | 230 VAC +/- 10%, 50Hz.                    |
| 5. Enclosure                 | : | Polystyrol plastic, impact resistant.     |
| 6. Protection classification | : | IP 65 - Dust Proof and Water proof.       |
| 7. Size                      | : | Width 325 MM, Height 260 MM, Depth 155 MM |
| 8. Weight                    | : | <5 Kg.                                    |
| 9. Mounting                  | : | Wall mounted                              |
| 10. Electrical               | : | Separate large terminal compartment       |
| 11. Colour                   | : | RAL 7035 - Light Grey                     |
| 12. Operating temperatures   | : | 0-45°C. humidity 0-95% Rh                 |

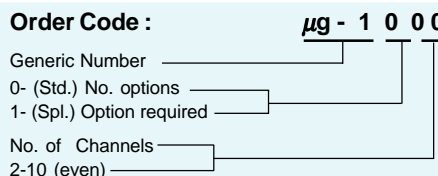


**GAS DETECTOR / ALARM**  
for Commercial Application  
**FF-400**

## C.SYSTEM

- Electro Chemical Sensors - for toxic gases.
- Intrinsically safe system using Zener Barriers.
- Remote Annunciators
- Control outputs for Valves, Fans, Power Trip etc.
- Remote Alarm : Piezo Horn upto 250 mtrs away
- Calibration Kit
- Sheet Steel Enclosure

### Order Code :



Standard Accessories : Mounting Bracket Hardware, Piezo Horn



**DOMESTIC GAS ALARM**  
for LPG / LNG

Specifications subject to change without notice but will always be on the better side.



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