# **GM-416-WP**

# **Gas Monitoring System**



## **Features**

- 8,16 & 24 channel MODBUS ID monitoring system for Gas Detectors/ Gas Transmitters having RS-485 MODBUS RTU network connectivity on 4 wire technology.
- · Ring topology possibility for redundancy, so if wire break, system runs.
- Multidrop RS-485 port eliminates separate cabling to each Detector, Multichannel communicator panel.
- Display scan all channel (8,16 & 24) within programmable scan time 1 to 999 sec.
- 2 numbers of Digital Input.
- 2 x 4 digit LED display with 32 LED's.
- Integrated Buzzer/3 numbers SPDT Relay for Warning.
- · Password protected menu with password changing facility.
- Easy handling & programming with 3 keys on front panel.



## **Applications**

- Bullet Yards / Storage yards
- · Gas cylinder storage & Gas refilling station
- Building management services
- · Breweries, Steel Plants, Gas Turbines,
- · Leak detection, Solvent Vapours.
- · Personal Monitoring, Compressor Stations.
- · Pulp & Paper Industry, Fuel Loading Facilities.
- Shopping Malls.
- Gas station / Gas manifold
- · Gas Cylinder Bank area

- Chemical & Hazardous area where data monitoring is essential.
- · Gas Pipeline projects
- Burner / Furnace area
- · Heat Treatment plants

## **TECHNICAL SPECIFICATIONS**

### **General:**

Input : 8,16,24 detectors having RS-485 MODBUS RTU port

Display : 2 x 4 digit L.E.D. Seven Segement Display

Status indication : DI-1 for Digital Input Signal-1

DI-2 for Digital Input Signal-2

COM-1 indicate communication between master

& slave devices.

COM-2 indicate repeater communication between devices/

PLC/ SCADA.

RLY-1 To Indicate Relay 1 is ON RLY-2 To Indicate Relay 2 is ON RLY-3 To Indicate Relay 3 is ON HTR To Indicate Hooter is ON

8 Channel	16 Channel	24 Channel
8 LED for Alarm1		24 LED for 24
8 LED for Alarm2	Channel each having	Channel each having
8 LED for Fault	3 function (AL1,	3 function (AL1,
	AL2 & FLT)	AL2 & FLT)

Control action : 3 independent Relays common for all channels

operate as per slave status.

Audible Indication : Integrated buzzer & Hooter for Alarm Set point violation.

Range & Resolution : 0,0.1 & 0.01

#### **Environmental:**

Operating Temperature: 0 to 50°C

Humidity : Less than 95%RH Non-Condensing.

#### **Electrical:**

Supply Voltage : 90 TO 270 VAC, Typically 230 VAC

For Slave Device : Less than 1.5 Amp at 24VDC for 8 channel

Junction box with SMPS will be required for

16 & 24 Channel

#### **Accessories:**

 Weatherproof enclosure for inter connection between Detector & Multichannel communicator.

24VDC Operated Hooter Cum Flasher.

#### **Communication:**

Communication Port: Isolated RS-485 communication with MODBUS RTU

Protocol for Master & Slave

Settings : Baud rate (9.6, 19.2), Parity(0/E/N), Stop bits(1/2)

No of Slave ID : 1-250

#### **Error Monitoring**

Err indication for OPEN / OVER range of slave devices

bret' to indicate Read error/Communication cable break / improper setting communication parameters with slave devices.

#### TECHNICAL SPECIFICATIONS

### Relav

1) 3 Nos. SPDT Relay of Rating "NO CONTACT: 10A 250VAC/5A 30VDC

NC CONTACT: 3A 125VAC/3A 30VDC"

2) Relay 1 for Alarm 1, Relay 2 for Alarm 2 & Relay 3 for Fault

### **Programmable Parameters**

Set point : 2 Nos. AL1, AL2 User Settable in device & configurable

through Modbus Protocol

**Settings** : 3 Nos. keys on front side with password protection for

Weatherproof Model.

LOW-LOW, HIGH-HIGH, LOW-HIGH User Settable Logic

## Weatherproof Housing

Cabinet Material: ABS Plastic

: PG 12 cable gland **Cable Entry** 

Mounting : Wall Mounting

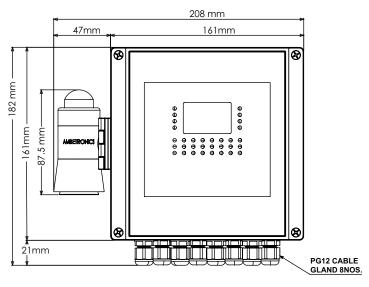
Dimension : 182 mm (H) with Cable gland x 214 mm (W)

with Hooter Cum Flasher x 81.5 mm (D)

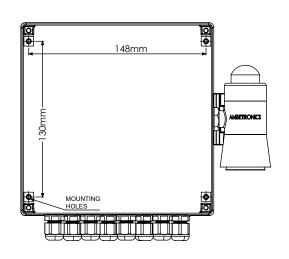
Weight : Approx. 950 g.

## WEATHERPROOF ENCLOSURE DIMENSION & MOUNTING DETAILS

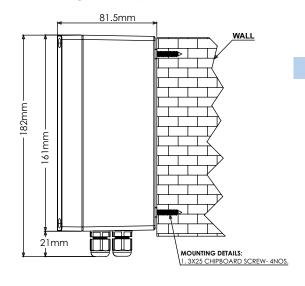
## **FRONT VIEW**



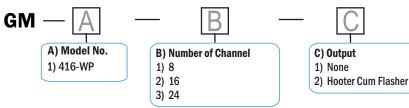
## **BACK VIEW**



## SIDE VIEW



## **ORDERING INFORMATION**



\* Before placing order please refer the above ordering information or contact below address for assistance.

Manufactured by:





















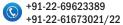


Specifications subject to change without any prior notice



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