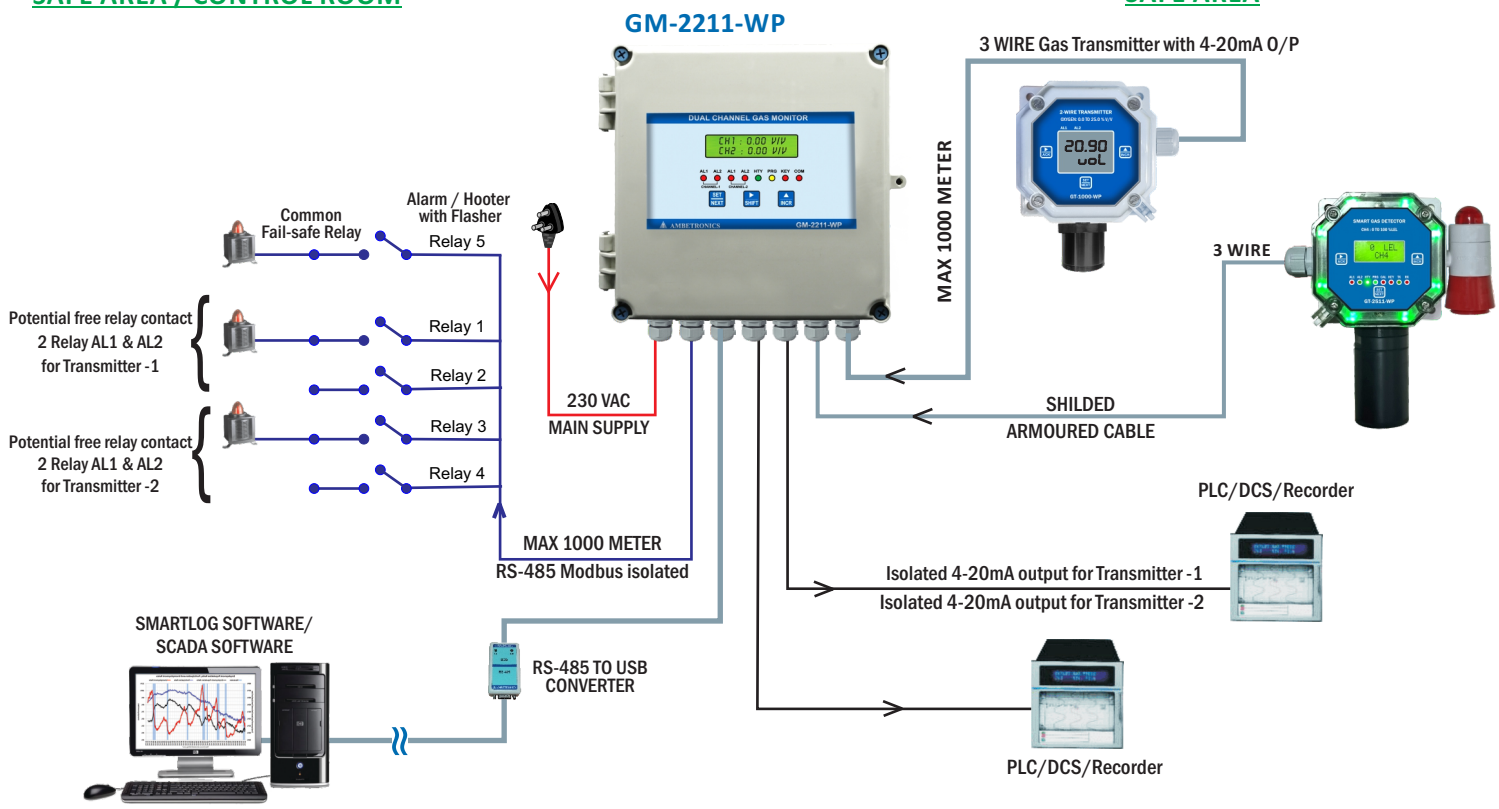
GM-2211 WP

Dual Channel Gas Monitor
(Oxygen/Toxic/Combstible Gases)

AMBETRONICS
AN ISO 9001:2015 CERTIFIED COMPANY



Features

- Display of Gas Concentration along with its Unit & 'Gas Name' for both Channels.
- Microcontroller Based Latest, Accurate, Reliable & High Performance Technology that Eliminates False Alarm.
- Advance Warming & Alarm Output.
- Audio Visual Alarm Indication
- Two Independent Alarm Relay Output.
- Optional programmable Voltage & Current Output with Configurable Range.
- Easy Handling & programming with 3 keys.
- Can be programmed using Remote Control from 10 meter in line of site distance.
- Password protected programming menu.
- Optional Isolated RS - 485 Communication Port with Modbus RTU Protocol.

Applications

- Refineries
- Paint Shop
- Sewage Plants
- Hotel Industries
- Fertilizers Plants
- Stack Monitoring
- Gas Cylinder Bank
- Pulp & Paper Plants
- Gas Pipeline Projects
- Heat Treatment Plants
- Automotive Industries
- Oil and Gas industries
- Gas Metering Stations
- Chemical Storage Area
- Burner / Furnace Areas
- Power & Industrial Plants
- Bullet Yard / Storage Yards
- Chemical Processing Plant
- Coal Mine and Confined Areas
- Chemical & Petrochemical Plants
- Acid Alkalizes & Dyes Mfg. Plants
- Offshore Drilling & Processing Platforms

TECHNICAL SPECIFICATIONS

General

Input	:	2 Channel x 4 to 20mA output from Oxygen/Toxic / Combustible Gas Transmitter.
Range	:	0 to 9999 in unit PPM or % LEL or %, V/V Programmable by user.
Display	:	16 x 2 Alphanumeric LCD / OLED with auto Backlit option for LCD Display.
		8 LEDs to indicate status of instrument
Control Action	:	i) Two independent Alarm Set Points with Latch & Non-Latch facility for each Channel independently.
		ii) User selectable Hysteresis & Logic option.
		iii) Common Fail Safe Relay for both the channels
Setting	:	By 3 Keys on front panel for WP/FLP Model
	:	By using Remote Control (Optional)

Performance

Measurement Accuracy	:	± 0.25% of full-scale for Gas Monitor
Response Time	:	500m Sec typical
Start-up Time	:	Approx 30 Seconds.

MUST FOR HUMAN & INDUSTRIAL SAFETY

TECHNICAL SPECIFICATIONS

Electrical

Power Supply	:	90 to 270 VAC; ±20%, 50Hz, Typically 230VAC
Power Consumption	:	Less than 5 Watt.
Connection	:	3 Wires (1.5 mm^2)Flexible or Armoured Shielded Cable.

Error Monitoring

i) During Sensor break / open, Display shows 'Sensor Open' & Output Signal gets as per the Up scale / Down scale selection.

ii) During 'Under Range', Display shows 'Under Range' & Output Signal gets as per the Up scale / Down scale selection.

iii) During' Over Range', Display shows 'Over Range' & Output Signal gets as per the Up scale / Down scale selection.

iv) Down Scale Output Signal= 0mA / 0VDC.

v) Up Scale Output Signal = 21mA / 5.5VDC / 10.5VDC.

Environmental

Operating Temp.	:	-15 to +55°C
Humidity	:	Less than 95% Non-Condensing.
		EMI-EMC compatibility

Output Signal

Standard	:	It has five No. relays (One for Failsafe & Two no. for Alarm Indication for each Channel) of rating 120VAC / 2A, 24VDC/2A.
Optional	:	Isolated 0-20mA / 4-20mA / 0-5VDC / 0-10VDC Output selectable proportional to Gas Concentration with programmable Range.
Optional	:	Isolated RS - 485 Communication Port with Modbus RTU Protocol.

Accessories (Optional)

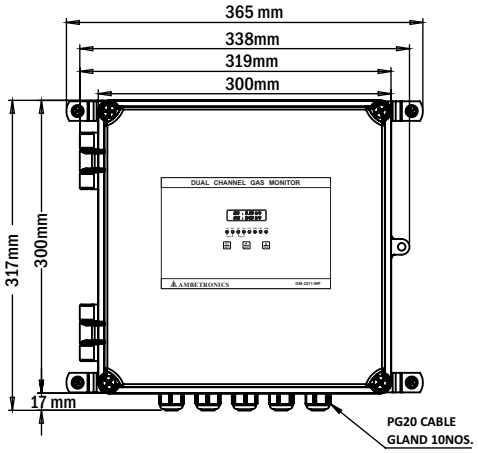
- CE certified 24 VDC Power supply.
- Canopy & Mounting stand.
- Gas Calibration Kit (0.5,1, 3,10)Liter.
- Hooter Cum Flasher.
- Toxic / Combustible Gas Transmitter
- Gas Sampling & Conditioning System.
- RS-485 to USB OR RS-232 convertor
- PC Based SCADA Software, Modem

Weatherproof Housing

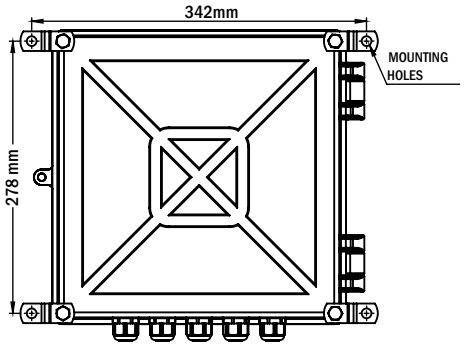
Protection Class	:	IP-65
Cabinet Material	:	ABS Plastic
Cable Entry	:	Thermoplastic cable gland (IP 65) with clamping range of 2.5 to 6.5 mm
Dimension	:	317 mm (H) x 365 mm (W) x 160 mm (D)
Mounting	:	Wall Mounting / Stand Mounting
Weight	:	Approx 2.5Kg

WEATHERPROOF ENCLOSURE DIMENSION DETAILS

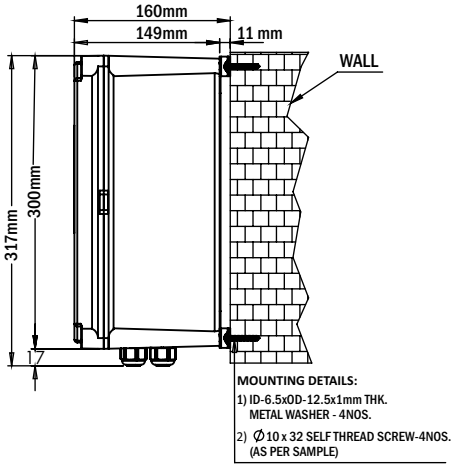
FRONT VIEW



BACK VIEW



SIDE VIEW



ORDERING INFORMATION

GM — A — B — C — D — E — F — G

A) Model No.	B) Enclosure	C) Retransmission Output	D) Relay Output	E) Communication Port	F) Programming Interface	G) Power Supply
1) 2211	1) WP (Weatherproof)	1) None 2) 2 x 4-20mA	1) None 2) 5 Relays	1) None 2) RS-485 Serial Port isolated	1) None	1) 230VAC / DC 2) 24VDC (optional)

* Before placing order please Refer the above ordering information or Contact us for assistance.

Manufactured by :

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Specifications subject to change without any prior notice