SINGLE GAS ALERT MONITOR
OXYGEN / TOXIC / COMBUSTIBLE GASES
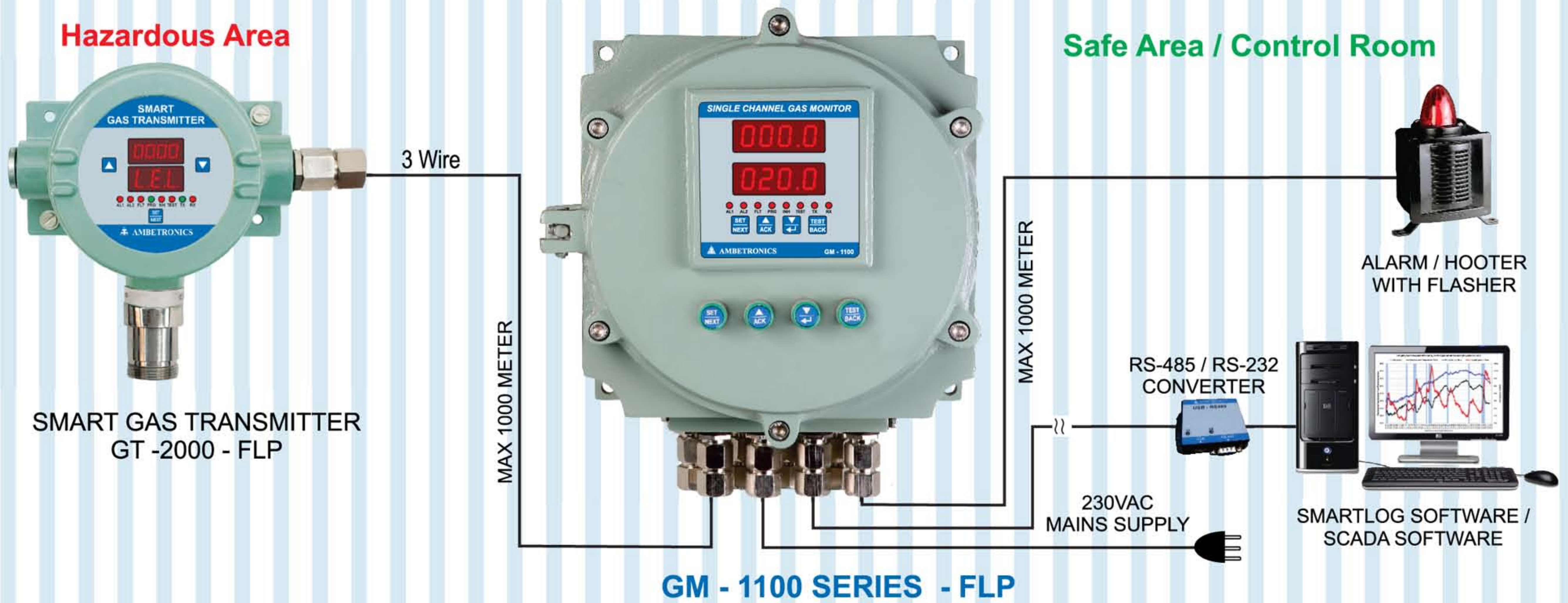
Hazardous Area

Safe Area / Control Room

SINGLE CHANNEL GAS MONITOR

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005.0

ALT | ALT2 | FLT | PRG | HIGH | TEST
SET/NEXT | ACK | ↵ | TEST/BACK

AMBETRONICS   GM - 1100 - WP

PROGRAMMABLE 2 WIRE
LOOP POWERED TRANSMITTER

20.9

AMBETRONICS

2 Wire

MAX 1000 METER

MAX 1000 METER

ALARM / HOOTER
WITH FLASHER

RS-485 / RS-232
CONVERTER

230 VAC
MAINS SUPPLY

SMARTLOG SOFTWARE /
SCADA SOFTWARE

LCD DISPLAY
GAS TRANSMITTER
GT - 1000 - FLP

GM - 1100 SERIES - WP

Hazardous Area

Safe Area / Control Room

SMART
GAS TRANSMITTER

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LEL

AMBETRONICS

3 Wire

SINGLE CHANNEL GAS MONITOR

000.0

020.0

ALT | ALT2 | FLT | PRG | HIGH | TEST
SET/NEXT | ACK | ↵ | TEST/BACK

AMBETRONICS   GM - 1100

MAX 1000 METER

MAX 1000 METER

ALARM / HOOTER
WITH FLASHER

RS-485 / RS-232
CONVERTER

230VAC
MAINS SUPPLY

SMARTLOG SOFTWARE /
SCADA SOFTWARE

SMART GAS TRANSMITTER
GT -2000 - FLP

GM - 1100 SERIES - FLP

Features

- Dual Display of Gas Concentration & Set Point / Unit of Gas
- Microcontroller Based Latest, Accurate, Reliable & High PerformanceTechnology that Eliminates False Alarm
- Advance Warning and Alarm Output
- Audio Visual Alarm Indication
- Two Independent Alarm Relay Output
- Optional Programmable Linear 4 - 20mA / 20-4 mA O/P with Respect to Gas Concentration
- Optional RS-485 with Modbus RTU Protocol
- Easy One Man Calibration at Site
- Suitable In Hazardous Area CCOE, CMRI & IP - 65 Approved
- User Friendly Operation
- Password Protected Programming with Password changing facility
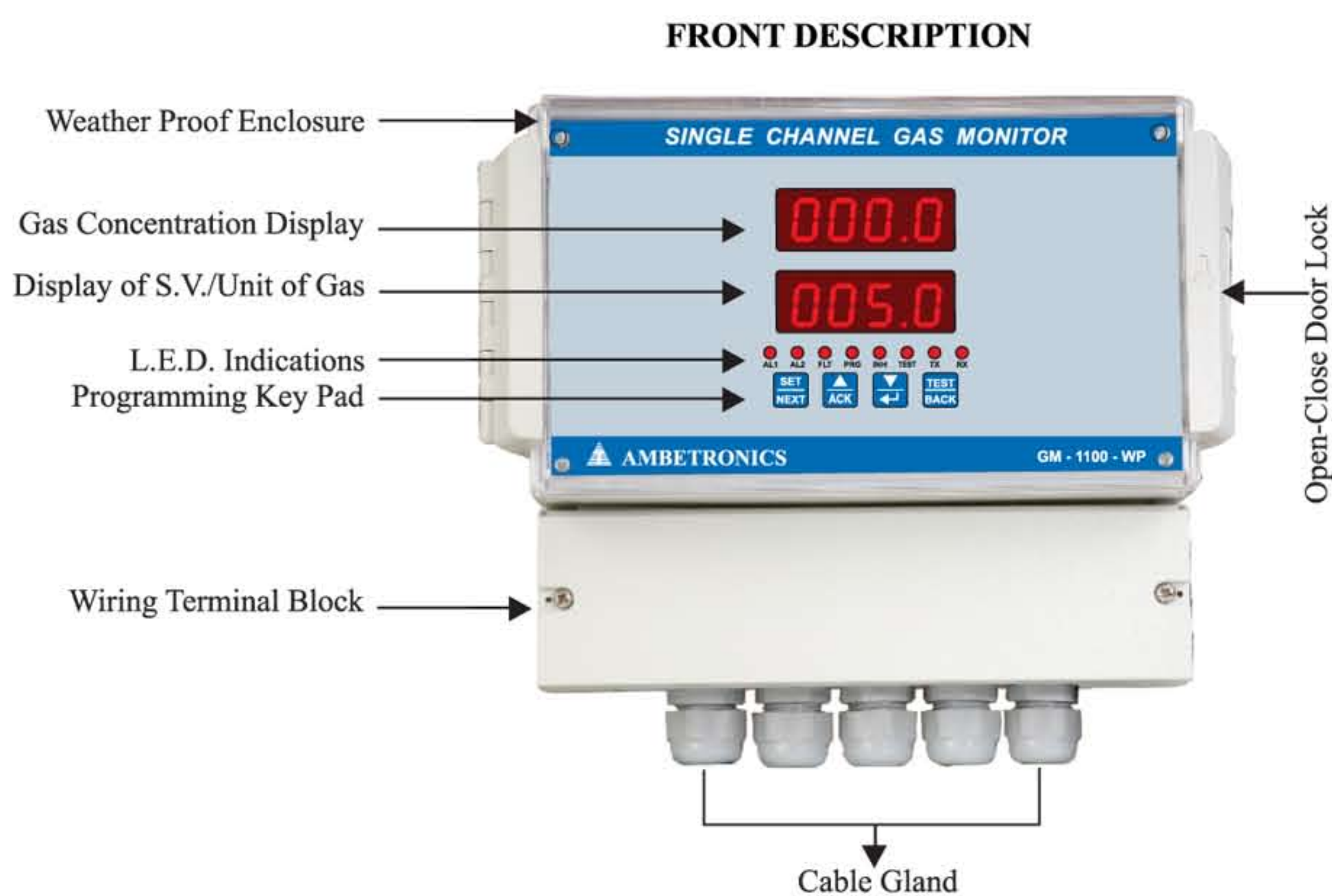
Applications

- Oil & Gas Industries
- Chemical & Petrochemical Plants
- Chemical Processing Plant
- Pulp & Paper Plants
- Acid Alkalizes & Dyes Mfg. Plants
- Offshore Drilling & Processing Platforms
- Refineries
- Stack Monitoring
- Chemical Storage Area
- Ambient Monitoring

- Sewage Plants
- Fertilizers Plants
- Power & Industrial Plants
- Gas Metering Station
- Bullet Yard / Storage Yard
- Coal Mine and Confined Area
- Gas Pipeline Project
- Gas Cylinder Bank
- Heat Treatment Plants
- Automotive Industries / Paint Shops
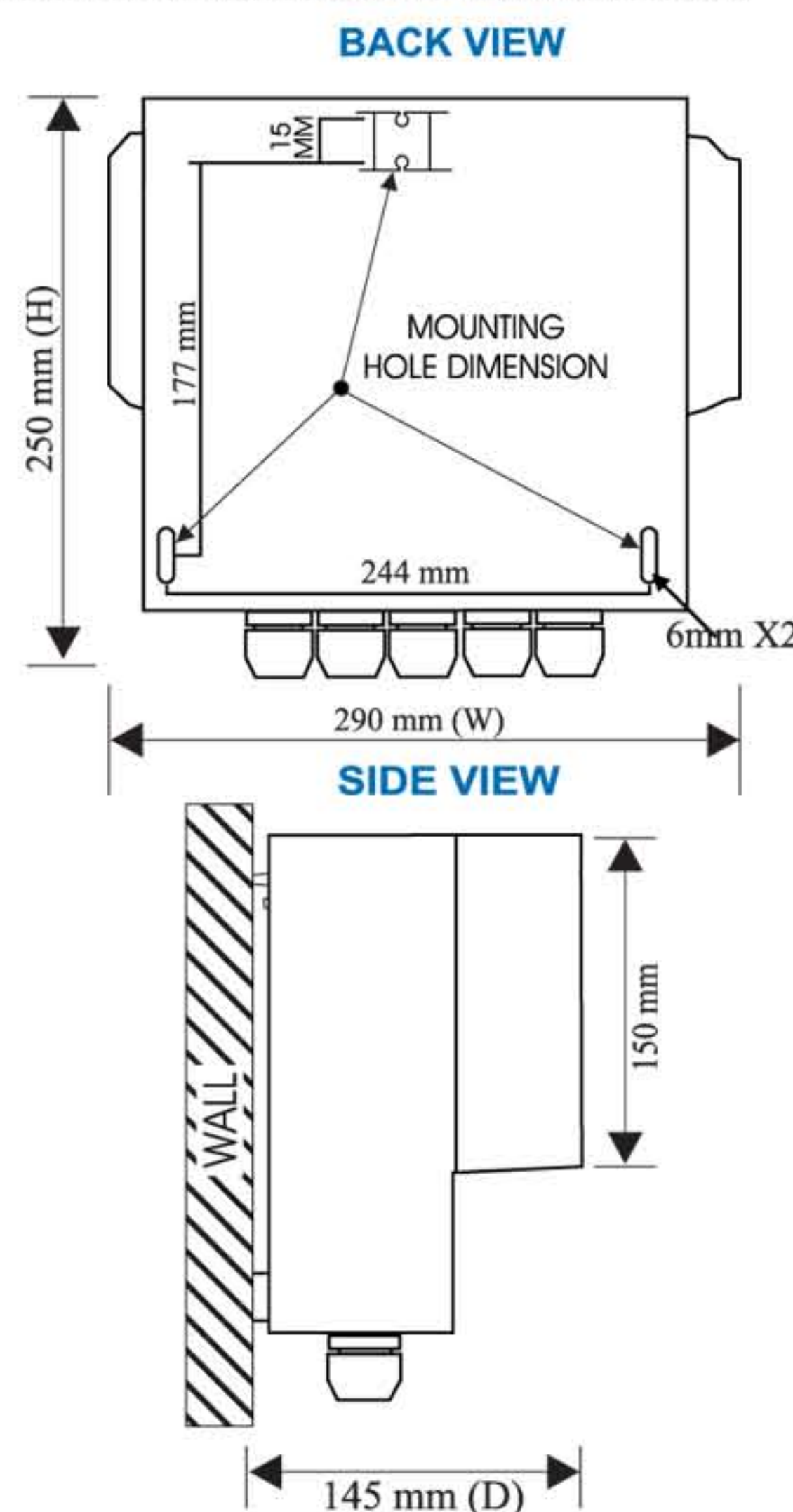- Burner / Furnace Areas

MUST FOR HUMAN AND INDUSTRIAL SAFETY

TECHNICAL SPECIFICATIONS

Input	4 to 20mA output from Oxygen / Toxic / Combustible Gase Transmitters
Range	0 to 9999 In units of P.P.M. OR % L.E.L. OR % VOL. programmable by user
Resolution	1 / 0.1 Resolution programmable by user
Accuracy	± 1 % of full scale value
Dual Display	Upper :- 4 Digit of 13mm(H) Red LED display for 'Gas Concentration' indication
	Lower :- 4 Digit of 13mm(H) Red LED display for 'Set Point Value' of Alarm Relay-1/ Unit of Gas
LED Indication	AL1 & AL2 for Relay, FLT for Fail-Safe Relay, PRG for Programming mode, INB for Service / Inhibit mode, TST for Test mode, TX for Transmitting signal, RX for Receiving signal
Set point	2 No, Independent set point for Alarm Relay-1 & Alarm Relay-2 with programmable latch & non- latch facility
Control Action	LO / HI, HI / LO, LO / Very LO, HI / Very HI, Programmable by user
Hystersis	0 to 100 counts, Individual setting for Alarm Relay-1 & Alarm Relay-2, Programmable by user
Time Delay	Independent Programmable 0 to 9999 sec for Alarm Relay-1 & Alarm Relay-2
Relay Output	Alarm Relay-1 operates for set point 1, Alarm Relay-2 operates for set point 2 & Fail-Safe Relay with normally-off or normally- on conditions selectable
Relay Contact type	3 No, 1 NO-C- NC, 230 VAC/5A Relay contact for RL1, RL2 & Fail-Safe Relay
Setting	Setting by 4 keys on front panel i.e. 'SET / NEXT', 'UP', 'DOWN' & 'TEST / BACK'
Monitoring	I) By display : Sensor break/ open shows 'oPEn', under range shows 'Undr' & over range shows 'ouEr'
	ii) By Retransmission current : Up scale current : 21mA, Down scale current : 3mA, Programmable
Supply Voltage	230 VAC ± 10% OR 110 VAC ± 10% OR 24 VDC
Cable	1.5 sq. mm 3 Core OR 2 Core, Flexible OR Armoured shielded cable from Gas transmitter
Operating Temperature	0 to 50°C ± 5%, Relative Humidity: Below 95% non Condensing

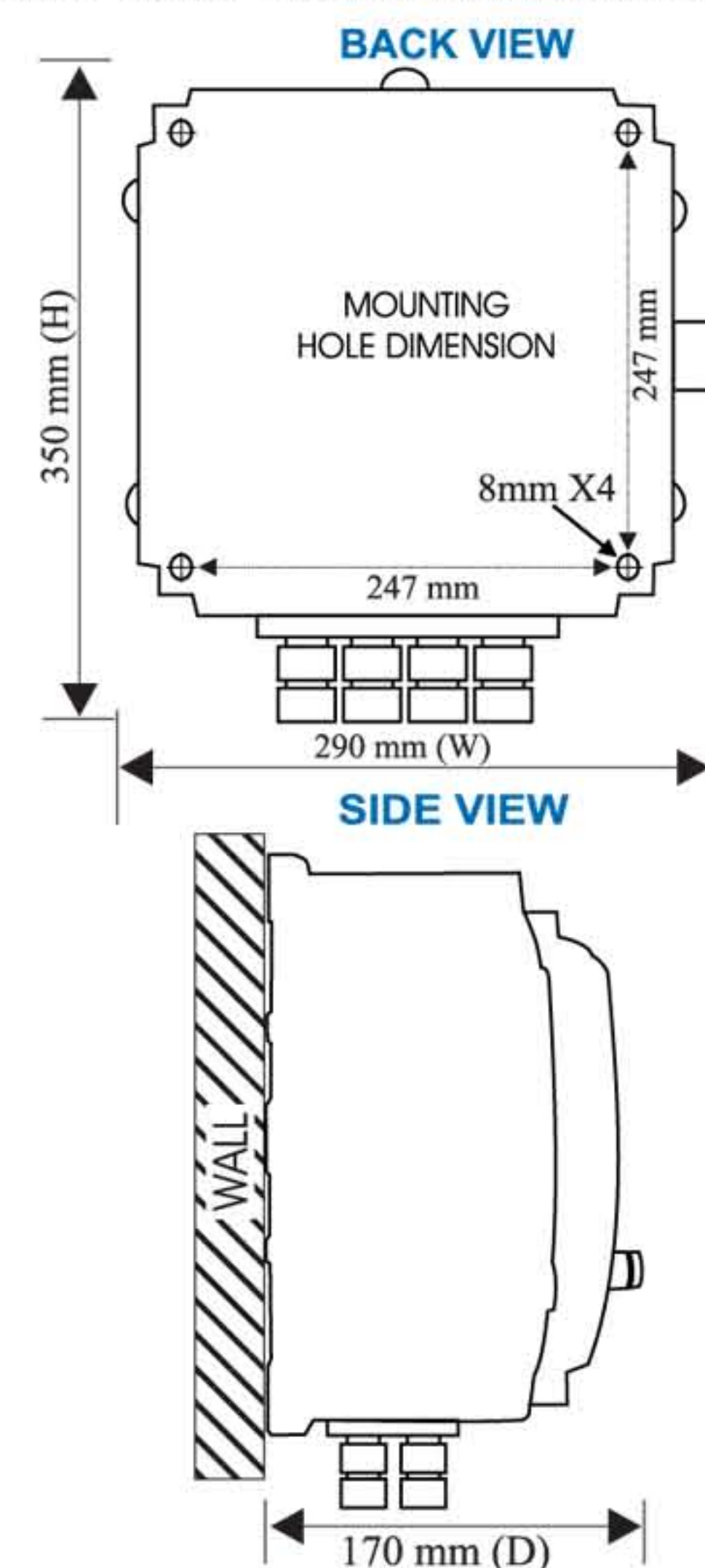|	GM - SERIES - WP (Weatherproof)	GM - SERIES - FLP (Flameproof)
Enclosure Details		
Protection Class	IP-65	IP-65 for Gas Gr. IIA & IIB, CCOE & CMRI approved
Cabinet Material	Polycarbonate, gray colour	Cast Aluminum alloy, LM-6 / C.I. Enclosure
Cable Entry	Thermoplastic cable gland (IP 68) with clamping range of 2.5 to 6.5mm	Double compression cable gland (Ex-Proof), ¾" ET-type
Dimension	250 mm (H) x 290 mm (W) x 145 mm (D)	350 mm(H) x 290 mm(W) x 170 mm(D)
Mounting	Wall Mounting / Stand Mounting	Wall Mounting / Stand Mounting
Weight	Approx 2.5 kg	Approx 5.0 kg
Optional	a) Isolated RS-485 Serial port with MODBUS RTU protocol output b) SMARTLOG / SCADA SOFTWARE for online graph & data report for safety Audit c) Flame Proof or Non Flame Proof Industrial Hooter, Hooter cum Flasher, Chart recorder, Cables, PC software, Gas Transmitter, 24VDC power supply, Gas calibration kit d) Optional programmable linear 4-20mA / 20-4 mA O/P with respect to Gas concentration range	

FRONT DESCRIPTION

WEATHERPROOF ENCLOSURE DIMENSIONS

FLAMEPROOF ENCLOSURE DIMENSIONS

FRONT DESCRIPTION

SINGLE CHANNEL GAS MONITOR

Weather Proof Enclosure
Gas Concentration Display — 000.0
Display of S.V./Unit of Gas — 005.0
L.E.D. Indications
Programming Key Pad
AMBETRONICS   GM - 1100 - WP
Open-Close Door Lock
Wiring Terminal Block
Cable Gland

BACK VIEW
15 MM
250 mm (H)
177 mm
MOUNTING HOLE DIMENSION
244 mm
6mm X2
290 mm (W)
SIDE VIEW
WALL
150 mm
145 mm (D)

BACK VIEW
350 mm (H)
247 mm
MOUNTING HOLE DIMENSION
8mm X4
247 mm
290 mm (W)
SIDE VIEW
WALL
170 mm (D)