GT-4220-WP-HCF

LPG/PNG/CNG Gas Leak Detector





Features

- · Self test facility, Built in temperature sensor.
- PESO Certified Enclosure, Hooter Cum Flasher & Cable gland
- Provides a fast & reliable response by using Catalytic / Pellistor / Semiconductor technology for detecting leak of LPG/PNG/ CNG/ LNG/ Natural Gas/ Flammable Gas.
- · Highly resistant sensor to poisoning & etching.
- Isolated RS-485 communication port with MODBUS RTU protocol.
- Non-intrusive programming with Magnetic Wand .
- Password protected programming menu.
- Optimised for detection of smallest Gas leaks with optional Integrated Buzzer and Flasher as optional.
- 2 numbers Alarm Relay Contacts configurable for Warm, Alarm & Fault.
- · Inbuilt Ambient temperature detection.
- In built Temperature detector link to alarms.

Applications

- · Gas Metering Skid
- · CNG station
- Fertilizers Plants
- · Oil & Gas Industries
- · Ambient Monitoring
- Gas Pipeline Project Refineries
- . Gas Metering Station
- Gas Refilling station
- BMS
- Commercial Kitchen
- · Gas manifold area

- Chemical & Petrochemical Plants
- Automotive Industrial / Paints Shops
- LPG Gas Cylinder Bank
- Sewage Plants
- Burner / Furnace Areas
- Heat Treatment Plants
- Chemical Storage Area
- LPG Bullet Yards
- Chemical Processing Plant
- Offshore Drilling & Processing Platform
- Power & Industrial Plants

TECHNICAL SPECIFICATIONS

General:

Gas Sensor : Catalytic / Pellistor / Semiconductor

Sensor Holder : SS-316

Temperature Sensor : For Ambient temperature measurement

Detection Method : Continuous Diffusion
Range & Resolution : As specified in table

Display & LEDs : 4 Digit Seven segment LED Display.

4, L.E.D.'s for Warn (Warning), Alarm, Fault, Communication

to indicate status of instrument.

Set Point : i) Two independent Alarm set points for AL1 & AL2 with

LED indication

ii) User selectable Hysteresis and Logic options for Alarm.

iii) Ambient Temperature detection set point can be set

between -20.0°C to 100°C

Setting : Non-intrusive programming with Magnetic wand without

opening enclosure cover

Accuracy:

Catalytic / Pellistor : ± 2 % full scale

Semiconductor : ± 5 % of full scale, Only for Gas Detection

Performance:

Response time : Less than 5 seconds Start-up Time : Less than 30 seconds

Electrical:

Supply Voltage : 18 to 36 VDC, Typically 24VDC

Power Consumption : Less than 2 Watts

Connector : 1) 4 wires (1.5mm²) Flexible or Armoured shielded cable

for 24 VDC input & RS-485 Output

2) 4 wires (1.5mm²) Flexible or Armoured shielded cable

for Relay Output

Environmental:

Operating Temperature : -20 to +60°C Storage Temperature : -30 to +70°C

Humidity : Less than 95% Non-Condensing.

Output Signal:

Output 1 $$: Two SPST NO/C/NC relays contact rating 5A/250VAC, 5A/30VDC

Output 2 : Isolated RS-485 communication with MODBUS RTU protocol.

Output 3 : SS 316 PESO Certified Hooter Cum Flasher 90dB with RED light flashing.

Error Monitoring:

 During Sensor Break / Open the display shows 'Sensor Open / Over Range' and MODBUS Hex Value / Decimal Value is 0x7FFF / 32767.

2) Ambient Temperature exceeds > set point, FLT LED blinks and Alarm relay will be

activated.

Accessories (Optional):

1) CE certified 24 VDC Power supply 2) Canopy & Mounting stand

3) Flameproof, Weatherproof IP66 Hooter Cum Flasher - Model No.: HCF/FLP/2C

• CIMFR CERTIFICATE NO.: IN/CIMFR/TR19/4378 Dt.:13/12/2019

• PESO CERTIFICATE NO. : P468728/3 Dt.: 21/02/2020

Common Deliverable

1) Test Calibration Certificate

5) Protection cap

2) Reference Calibration Gas Certificate

6) Calibration Cap

3) 'Operational / Instrument' User Manual

7) Magnetic Wand

4) Standard Mounting Hardware

Weatherproof Housing

Protection class : IF

Cabinet material : Polycarbonate , Grey Colour

Cable entry : Thermoplastic cable gland (IP-68)

Dimension : 170.6 mm(H) with sensor holder X 175 mm(W) with

cable gland & Hooter cum Flasher X 70 mm(D)

Mounting : Wall Mounting/ Stand Mounting

Weight : Approximately 380 grams.

LIST OF GASES WITH RANGE AND RESOLUTION AND ALARM SET POINT

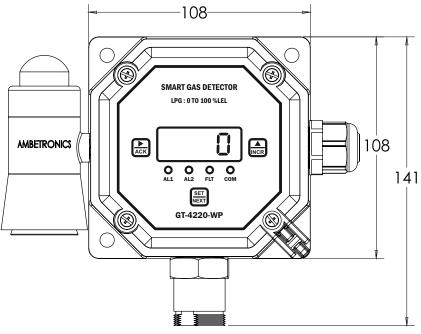
CATALYTIC / PELLISTOR SENSOR TECHNOLOGY

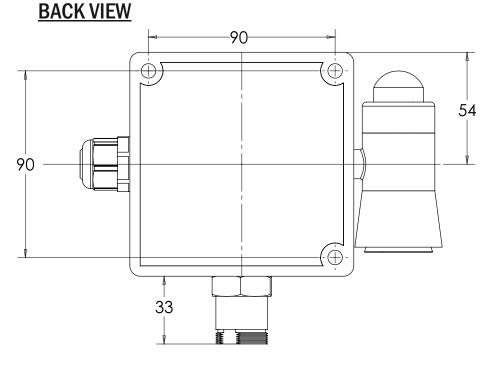
GASES	RANGE	UNIT	RES.	AL1	AL2
Methane (CH4)	100	% LEL	1	20% LEL	40% LEL
CNG	100	% LEL	1	20% LEL	40% LEL
LNG	100	% LEL	1	20% LEL	40% LEL
PNG	100	% LEL	1	20% LEL	40% LEL
Natural Gas	100	% LEL	1	20% LEL	40% LEL
Flammable Gas	100	% LEL	1	20% LEL	40% LEL
LPG (C3H8)	100	% LEL	1	20% LEL	40% LEL

SEMICONDUCTOR SENSOR TECHNOLOGY

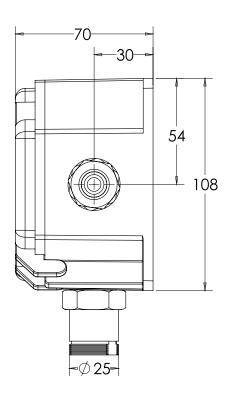
GASES	RANGE	UNIT	RES.	AL1	AL2
METHANE (CH4)	20	%LEL	1	10% LEL	15% LEL
CNG	20	%LEL	1	10% LEL	15% LEL
LNG	20	%LEL	1	10% LEL	15% LEL
PNG	20	%LEL	1	10% LEL	15% LEL
Natural Gas	20	%LEL	1	10% LEL	15% LEL
Flammable gas	20	%LEL	1	10% LEL	15% LEL
LPG (C3H8)	50	%LEL	1	10%LEL	20%LEL

FRONT VIEW

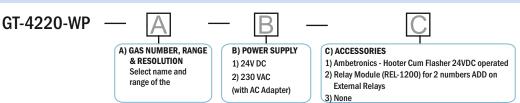




SIDE VIEW



ORDERING INFORMATION



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

Manufactured by:





















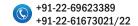








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