

TÜVNORD

TÜV NORD CERT GmbH

**ISO 9001
ISO 14001**

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TÜVINDIA

TÜV INDIA PVT. LTD.

**ISO 9001
ISO 14001**

tuv-india.com/in

34+

Years of Expertise

**Largest Indian
Manufacturer**
**7 Patented
Products**
**Exporting to
More than
15 + Countries**
**Recognized
R&D Dept. by
Govt. of India**
**Visit our Factory
for Live
Demonstration**


Complete Range of Gas, Flame & Heat Detection Solutions

Manufacturing of :

- Toxic Gas Detectors/Transmitters
- HC Gas Detectors/Transmitters
- Oxygen Gas Detectors/Transmitters
- VOC Gas Detectors/Transmitters
- Portable Gas Detectors
- Wireless Gas Detectors
- UV /IR Flame and Heat Detectors
- Ember Detectors

- Percent O₂ Analyzer
- Trace Oxygen Analyzer
- Dew Point Analyzer
- Bio Gas Analyzer
- Stand alone Gas Monitors
- IoT System for remote monitoring on cloud & Alerts via SMS/E-mail/Voice call

On site Services For :

- On site Calibration Services
- On site AMC/CMC
- On site Installation and commissioning
- Customized Development
- Repairing and Calibration of any Make and any Model



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Biogas Plant
**Chemical
Plant**
Fertilizer Plant
Gas Skid
**EV
Charging
Station**
LPG Storage Tanks
**Chemical
Waste
Recycling
Plant**
Power Plants
**Commercial
Kitchen for
Restaurants/Hotels**

Loop Powered Detector Oxygen/NDIR/Toxic (-2 Wire)



GT-1033-WP

- 2 Line L.C.D. Display with backlight
- Pluggable smart Sensor module
- Toxic/O₂/NDIR/CH₄ Gas Detection
- 2 wire 4-20mA O/P & HART output available
- IP66 Enclosure

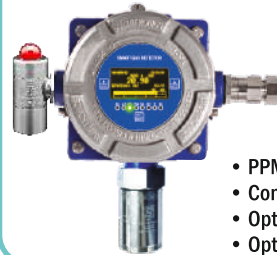


GT-1033-FLP

Intrinsically Safe
Design Patent No. 335348-001

- 2 Line L.C.D. Display with backlight
- Pluggable Sensor module
- Toxic/O₂/NDIR/CH₄ Gas Detection
- HART output available
- Ex d (ia) IIC T6 Gb • IP68

Smart Gas Transmitter Oxygen/Toxic/Combustible



GT-2511-FLP-HCF

Design Patent No. 364963-001



- PPM, %V/V, %LEL detection
- High-contrast OLED display
- Configurable STEL/TWA thresholds
- Optional MODBUS RS-485 communication
- Optional HART protocol integration
- IP66 Enclosure

Smart Gas Transmitter Oxygen/Toxic/Combustible - (3 Wire / 4 Wire) - L.C.D. Display



GT-2511-WP-HCF

- L.C.D. Display
- 3 Wire, 4-20mA O/P
- 3 Nos. Relay (AL1, AL2, Failsafe)
- Isolated RS-485 O/P
- IP66 Enclosure



GT-2511-FLP-HCF

Intrinsically Safe
Design Patent No. 364963-001

- L.C.D. Display
- 3 Wire with HART
- With Hooter cum Flasher
- Isolated RS-485 O/P
- Ex d IIC T6 Gb
- IP66/IP68 Enclosure



GT-2511-FLP-SS-HCF

Intrinsically Safe
Design Patent No. 364963-001

- L.C.D. Display
- 3 Wire with HART
- 3 Nos. Relay
- Isolated RS-485 O/P
- Ex d IIC T6 Gb
- IP66 Enclosure



GT-2511-FLP-HCF-JB-150

Design Patent No. 343391-001

- L.C.D. Display
- 3 Wire with HART
- With Hooter cum Flasher
- Isolated RS-485 O/P
- Ex d IIC T6 Gb
- IP66/IP68 Enclosure

Smart Gas Transmitter Oxygen/Toxic/Combustible - (3 Wire / 4 Wire) - L.E.D. Display



GT-2500-WP-HCF

- 2 Line L.E.D. Display
- 3 Wire, 4-20mA O/P
- 3 Nos. Relay (AL1, AL2, Failsafe)
- Isolated RS-485 O/P
- IP66 Enclosure



GT-2500-FLP-HCF

Intrinsically Safe
Design Patent No. 364963-001

- 2 Line L.E.D. Display
- 3 Wire 4-20mA
- Isolated RS-485 O/P
- With Hooter cum Flasher
- Ex d IIC T6 Gb
- IP66/IP68 Enclosure



GT-2500-FLP-SS-HCF

Intrinsically Safe
Design Patent No. 364963-001

- 2 Line L.E.D. Display
- 3 Wire 4-20mA
- Isolated RS-485 O/P
- With Hooter cum Flasher
- Ex d IIC T6 Gb
- IP66 Enclosure



GT-2500-FLP-HCF-JB-150

Design Patent No. 343391-001

- 2 Line L.E.D. Display
- 3 Wire 4-20mA
- Isolated RS-485 O/P
- Ex d IIC T6 Gb
- IP66/IP68 Enclosure

Smart Dual Gas Transmitter Oxygen/Toxic/Combustible



GT-5022-FLP-HCF

Design Patent No. 382730-001

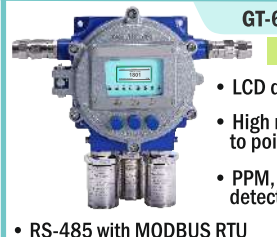
- Digital Display
- Pluggable Gas Sensor
- 2x 4-20mA O/P
- 3 Nos. Relay (AL1, AL2, Failsafe)
- Isolated RS-485 O/P



GT-5022-WP-HCF

- Digital Display
- Pluggable Gas Sensor
- 2x 4-20mA O/P
- 3 Nos. Relay (AL1, AL2, Failsafe)
- Isolated RS-485 O/P
- Highly resistant to poisoning and etching.

Smart Triple Gas Transmitter Oxygen/Toxic/Combustible



GT-6022-FLP

Design Patent No. 343391-001

- LCD display
- High resistance to poisoning
- PPM, %V/V, %LEL detection
- RS-485 with MODBUS RTU
- Electronics 'Test Mode' provided



GT-6022-WP

- LCD display
- High resistance to poisoning
- PPM, %V/V, %LEL detection
- RS-485 with MODBUS RTU
- Electronics 'Test Mode' provided

LNG/LPG/CNG/PNG (3 Wire) Gas Leak Detector



GT-4220-WP-HCF

- 1 x 4 digit L.E.D. Display
- 2 Nos. Relay
- Isolated RS-485 O/P or
- Isolated 4-20mA O/P
- IP65 Enclosure



GT-4220-FLP-HCF

Design Patent No. 335348-001

- 1 x 4 digit L.E.D. Display
- 2 Nos. Relay
- Isolated RS-485 O/P or
- Isolated 4-20mA O/P
- Ex d IIC T6 Gb • IP66/IP68 Enclosure

Stand Alone Smart Gas Detector / Monitor



GA-3500-WP-D

- L.E.D. Display
- 3 Nos. Relay
- 4-20mA O/P
- Isolated RS-485 O/P
- 230VAC
- IP65 Enclosure



GA-3500-FLP-D

Design Patent No. 343391-001

- L.E.D. Display
- 3 Nos. Relay
- 4-20mA O/P
- Isolated RS-485 O/P
- Ex d IIC T6 Gb
- 230VAC
- IP66 Enclosure

Stand Alone Smart Gas Detector / Monitor



GA-3511-WP-D

- L.C.D. Display
- 3 Nos. Relay
- 4-20mA O/P
- Isolated RS-485 O/P
- 230VAC
- IP 65 Enclosure



GA-3511-FLP-D

Design Patent No. 343391-001

- L.C.D. Display
- 2 Nos. Relay
- 4-20mA O/P
- Isolated RS-485 O/P
- 230VAC
- Ex d IIC T6 Gb
- IP66 Enclosure

Smart Gas Transmitter



GT-5011-FLP-HCF

Design Patent No. 382730-001

- Digital Display
- Pluggable Gas Sensor
- 1x 4-20mA O/P with HART
- 3 Nos. Relay (AL1, AL2, Failsafe)
- Isolated RS-485 O/P

Battery Powered Gas Detector Oxygen/Toxic/Combustible



WGD-100-FLP

- Battery Operated
- upto 1 year Battery life
- SMS / E-mail & Voice call Facility to control room
- IP-66 Enclosure

Gas Leak Detector for Domestic / Commercial Kitchens for detecting leak of LPG / CNG / PNG / Natural Gas / Flammable Gas

GLA-222-B & T

- Smallest gas leak with integrated Buzzer & L.E.D. indication
- Helps to detect Gas & Excess Temp. indication

GLA-222-B - WL

- Semiconductor Technology
- Optimised for detection of smallest gas leak with integrated Buzzer & LED indication and sends alert & ok status to the master device wirelessly
- Easy installation
- 230VAC powered.

GLA-222-DOME

- Fast reliable gas leak detection
- Detect smallest leaks with buzzer
- Visual & audible alarm signals
- Easy plug-in, 230VAC powered
- Optional relay for shut-off

GLA-333-DM4

- Range : 0-300 PPM
- Electrochemical sensor
- LCD Display
- RS-485 O/P
- Diffusion Sampling System
- Coverage Area: 750 Sq. feet

Gas Leak Alert

GLA-222-FLP-JB-70

- Smallest gas leak with L.E.D. indication
- Easy Installation
- 230VAC powered/ 24VDC
- Gas leak with LED indication
- Single Alarm Relay to operate shut off valve/ Buzzer Cum Flasher

GLA-222-WP-JB-70

- Smallest gas leak with L.E.D. indication
- Easy Installation
- 230VAC powered/ 24VDC
- Gas leak with LED indication
- Single Alarm Relay to operate shut off valve/ Buzzer Cum Flasher

Addressable Manual Call Point

ACP-321-WP-HCF

- Self test facility
- Monitoring device relay contacts can connected as Digital Output
- Remote acknowledged Key
- Hooter & Flasher ON/OFF pattern is programmable • IP65 Enclosure

Addressable Manual Call Point

ACP-321-FLP-HCF

Design Patent No. 335348-001

- Self test facility
- Monitoring device relay contacts can connected as Digital Output
- Remote acknowledged Key
- Hooter & Flasher ON/OFF pattern is programmable • IP66 / IP68 Enclosure

Weatherproof/Flameproof Hooter cum Flasher

HCF-WP-S-RH **HCF-FLP-2C**

- SS 316/304
- IP66
- Red/Green/Amber Flasher
- Sound level : 95 / 100 dB
- M-20 Connection • 24 VDC Supply

Weatherproof/Flameproof Hooter cum Flasher

HCF-WP-B-RH **HCF-FLP-B-IIC**

- SS 316/304
- IP66
- M-20 Connection
- 24 VDC Supply
- Red/Green/Amber Flasher
- Sound level : 105 dB/110 dB

Hooter cum Flasher

HCF-PRO-090-3

- Sound Level : 110 dB ~ 112dB
- Operating Voltage : 24 VDC
- Lens Colour : Red / Green/ Amber/Blue LED type (Multi colour)

HCF-PRO-120-3

- Sound Level : 110 dB ~ 112dB
- Operating Voltage : 24 VDC
- Lens Colour : Red / Green/ Amber/Blue LED type (Multi colour)

Flameproof Hooter cum Flasher

HCF-PRO-120-6

- Sound Level : 110 dB ~ 112dB
- Operating Voltage : 24 VDC
- Lens Colour : Red / Green/ Amber/Blue LED type (Multi colour)

Weatherproof Hooter cum Flasher

HCF-HEX-110-WP

- ABS Plastic Enclosure
- 12/24 VDC Supply
- M-12/M-20 Connection
- Sound level : 110 dB

Gas Detector Calibration Carrying Case

AEPL-GDCK/101

- 0.5 Liter Gas Cylinder Pressure : 100 kg/cm²
- 0.5 Letter Gas Mixture Cylinder
- PVC Tube
- Fix Flow Regulator (0.5 LPM)
- Calibration Cap

Double Compression Cable Gland

M-20-CG/FLP/2C

- Brass with Nickel plated
- Stainless Steel 316 (optional)
- Ex d IIC T6 Gb IP66
- M20, M25, ½" NPT, ¾" NPT
- CIMFR & PESO approved

Chemical Resistance Canopy Quantum Safe-1-PC-WM

AEPL-CAN-043

• For Rain & Dust protection

Front View Side view

Canopy - Mega Safe-1- MS-WM

AEPL-CAN-016 **AEPL-CAN-JB-250-A**

Base plate without front cover Base plate with front cover

• For Rain & Dust protection

Canopy- Quantum Safe-1-SS-WM

AEPL-CAN-023 **AEPL-CAN-JB-IIC-A**

Base plate without front cover Base plate with front cover

• For Rain & Dust protection

Floor Mounting Stand Stand-C-CLAMP-2FT-42-150-MS/SS

CANOPY STAND

Front side Back side Front side Back side

Relay Module-FLP

CRM-REL-1200-FLP

- Selectable Slave address.
- 1 Nos Digital Inputs
- 1 Nos Relays Output
- Isolated RS-485 Communication Port
- PESO Certified Enclosure & Cable gland

Smart Relay Module

SRM-1000-WP

- RGB Display
- 3 Nos. Digital I/P
- 1 No. Remote ACK
- RS-485 MODBUS RTU upto 32 No. slaves
- Side red LED indication for Alarm
- Hooter cum Flasher frequency settable
- 2 no. of Relay O/P

SRM-2000-WP

Smart IoT Gateway

SIS4G485

- 32 Channels
- GSM/GPRS Connectivity
- 2 Nos. SIM card slots
- RS-485 MODBUS RTU I/P & O/P
- 10 Mobile Nos. Voice call & SMS
- 5 E-mail address

RANGE OF GAS DETECTORS & TRANSMITTERS

	Loop Powered Gas Detector/ Transmitter for Oxygen/Toxic/Combustible/IR		Smart Gas Detector / Transmitter for			
Model No.:	GT-1033-WP	GT-1033-FLP	GT-2500-WP	GT-2500-FLP-HCF	GT-2500-FLP-HCF-JB-150	GT-2511-WP
 Product Specifications						
	GENERAL					
	• 2 Wire / 3 Wire / 4 Wire	2 Wire	2 Wire	3 Wire / 4 Wire	3 Wire / 4 Wire	3 Wire / 4 Wire
	• Pluggable Sensor module	✓	✓	✓	✓	✓
	Gases Detected : O ₂ / Toxic / Combustible / VOC	O ₂ / Toxic / NDIR / CH ₄		O ₂ / Toxic/Combustible/VOC		
Detection Method : • Electrochemical / Catalytic Bead • Pellistor • VOC • IR • PID • Solid State	• Electrochemical • IR-(only for CH ₄) • Hot Swappable Sensor		• Electrochemical • Catalytic Bead • Pellistor • PID • Hot Swappable Sensor			
Display : • L.C.D. Display with Backlit	2 Line x 4 Digit, L.C.D. Display		✕	✕	✕	2 Line x 4 Digit, L.C.D. Display
• L.E.D. / 0 LED Display	✕	✕	2 Line x 4 Digit L.E.D. Display			
Alarm : • with Buzzer & Flasher	✕	✕	Optional	Optional	Optional	Optional
• Inbuilt Buzzer	✕	✕	✕	✕	✕	✕
Output : • 4-20mA + HART	✓ + HART	✓ + HART	✓	✓	✓	✓ + HART
• No. of Relay Output	✕	✕	3	3	3	3
• Isolated RS-485	✕	✕	Optional	Optional	Optional	Optional
PERFORMANCE						
Accuracy : ±2% of Full Scale. (⊕)	±2% of Full Scale.	±2% of Full Scale.	±2% of Full Scale.			
Response Time : • Toxic & O ₂ : 15 Sec. (⊕)	✓	✓	✓	✓	✓	✓
• Combustible gases : 15 Sec.	✓	✓	✓	✓	✓	✓
SUPPLY VOLTAGE						
• Battery Supply	✕	✕	✕	✕	✕	✕
• 18 to 36 VDC, Typically 24VDC	Loop Powered	Loop Powered	24V DC/ 230V AC			
Power Consumption :	✕	✕	Less than 3.6 Watts			
ENVIRONMENTAL						
Operating Temp.:	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
Storage Temperature :	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C
Humidity :	Less than 95% Non-Condensing.					
HOUSING						
Cabinet Material : • Polycarbonate , Grey Colour	✓	✕	✓	✕	✕	✓
• Cast Aluminium alloy, LM-6	✕	✓	✕	✓	✓	✕
Protection Class. : • IP65 • IP66 • IP68	IP65	IP66/IP68	IP66	IP66/IP68	IP66/IP68	IP66
Enclosure Approval : • CIMFR Tested / PESO Approved	✕	✓	✕	✓	✓	✕
• Ex d IIC T6 Gb	✕	✓	✕	✓	✓	✕
• EMI/EMC - BS EN 50270	✕	✓	✕	✓	✕	✕
• Intrinsically Safe		✓		✓		
Dimension : with Buzzer & Flasher in mm	✕	✕	180(H) x180(W)x70(D)	225 (H) x 266 (W) x 122(D)	277(H) x 310(W) x 154(D)	180(H) x 180(W) x 70(D)
Dimension : without Buzzer & Flasher in mm	180(H) x132(W) x70(D)	197 (H) x197(W) x 97(D)	180(H)x132(W)x70(D)	225 (H) x 225(W) x122(D)	277(H) x 271(W) x 154(D)	180(H) x 132(W) x 70(D)
Sensor Holder. : • SS • ABS Plastic	ABS Plastic	SS-316	ABS Plastic	SS-316	SS-316	ABS Plastic
Cable Entry : • Thermoplastic gland	✓	✕	✓	✕	✕	✓
• Double compression cable gland (Ex-Proof) M20 x 1.5P	✕	✓	✕	✓	✓	✕
Mounting :	• Wall • Stand • Pipe	• Wall • Stand • Pipe	• Wall • Stand • Pipe	• Wall • Stand • Pipe	• Wall • Stand • Pipe	• Wall • Stand • Pipe
Weight:	400 Grams Without HCF	1.25 Kg - Without HCF	500 Grams With HCF	2.5 Kg- With HCF	5.5 Kg - With HCF	500 Grams With HCF
ACCESSORIES (OPTIONAL)	• CE certified 24VDC Power Supply • Gas Sampling & Conditioning System • Gas Calibration Kit					

Oxygen /Toxic/Combustible / IR / VOC			LPG/CNG/PNG Gas Leak Detector		Battery Powered Gas Detector
GT-2511-FLP-HCF	GT-2511-FLP-HCF-JB-150	GT-2511-FLP-SIL2)	GT-4220-WP	GT-4220-FLP	WGD-100-FLP
					
3 Wire / 4 Wire	3 Wire / 4 Wire	3 Wire / 4 Wire	3 Wire / 4 Wire	3 Wire / 4 Wire	Battery Powered Upto 1 year Battery Life
✓	✓				✓
O ₂ / Toxic / IR / Combustible / VOC			LPG / PNG Combustible		O ₂ / Toxic / IR
• Electrochemical • Catalytic Bead • Pellistor • PID • Hot Swappable Sensor			• Catalytic Bead • Pellistor • Semiconductor		• Electrochemical • IR • Hot Swappable Sensor
2 Line x 4 Digit, L.C.D. Display		✗	✗	✗	3.5 inch Graphical Display
✗	✗	0 LED Display	1 x4 Digit L.E.D. Display		✗
Optional	Optional	Optional	Optional	Optional	✗
✗	✗	✗	✗	✗	✗
✓ + HART	✓ + HART	✓ + HART	4-20mA Output	4-20mA Output	✗
3	3	3 (optional)	2	2	2
Optional	Optional	Optional	Optional	Optional	✗
±2% of Full Scale.					±2% of Full Scale.
✓	✓	✓	✗	✗	✓
✓	✓	✓	✓	✓	✓
✗	✗	✗	✗	✗	✓
24V DC		24V DC	24V DC		✗
Less than 3.6 Watts		Less than 6 Watts	Less than 1.5 Watts		✗
-20°C to +60°C	-20°C to +60°C	-40°C to +85°C	-20°C to +60°C	-20°C to +60°C	-20°C to +60°C
-30°C to +70°C	-30°C to +70°C	-45°C to +85°C	-30°C to +70°C	-30°C to +70°C	-30°C to +70°C
Less than 95% Non-Condensing.					
✗	✗	✗	✓	✗	✗
✓	✓	✓		✓	✓
IP66/IP68	IP66/IP68	IP66	IP65	IP66/IP68	IP66/IP68
✓	✓	✓	✗	✓	✓
✓	✓	✓	✗	✓	✓
✓	✗	✓	✗	✗	✗
✓		✓			
225 (H) x 266 (W) x 122(D)	277(H) x 310(W) x 154(D)	232 (H) x 225 (W) x 122(D)	143(H)x 180(W) x70(D)	160 (H) x 234 (W) x 97(D)	✗
225 (H) x 225(W) x 122(D)	277(H) x 271(W) x 154(D)	160 (H) x 197(W) x 97(D)	143(H)x132(W) x70(D)	160 (H) x 197(W) x 97(D)	225 (H) x 347 (W) x 120 (D)
SS-316	SS-316	SS-316	ABS Plastic	SS-316	SS-316
✗	✗	✗	✓	✗	✗
✓	✓	✓	✗	✓	✓
• Wall • Stand • Pipe	• Wall • Stand • Pipe	• Wall • Stand • Pipe	• Wall • Stand • Pipe	• Wall • Stand • Pipe	• Wall • Stand • Pipe
2.5 Kg-With HCF	5.5 Kg-With HCF	2.5 Kg.-With HCF	500 Grams With HCF	1.75 Kg.-With HCF	3.5 Kg.

Dual Channel Gas Monitors

GM-2200-WP



- Dual Channel
- I/P 4-20mA
- 2 Nos. Relay
- RS-485 O/P

GM-2200-FLP



- Dual Channel
- I/P 4-20mA
- 2 Nos. Relay
- RS-485
- Ex d IIC T6 Gb
- IP-66

Gas Monitoring System

GM-416-WP



- Ring topology possibility
- 3 Nos. Relay
- Multidrop RS-485
- All channels MODBUS ID monitoring system

GM-416-FLP



- Ring topology possibility
- 3 Nos. Relay
- Multidrop RS-485
- All channels MODBUS ID monitoring system

Gas Monitoring System

GM-416-MS



- Ring topology possibility
- 3 Nos. Relay
- Multidrop RS-485
- All channels MODBUS ID monitoring system

Conventional Multi Channel Gas Monitors (8 Channel)

TC-800-WP



- 8 channel
- I/P 4-20mA
- 2 Common Relay O/P
- Add-on Relay
- Isolated RS-485 O/P
- IP65

TC-800-MS



- I/P 4-20mA
- 2 Common Relay O/P
- Add-on Relay
- Isolated RS-485 O/P

TC-800-FLP



- 8 channel
- I/P 4-20mA
- 2 Common Relay O/P
- Add-on Relay
- Isolated RS-485 O/P
- Ex d IIC T6 Gb
- IP66

Multichannel Gas Monitors

UIP-880-WP



- Microcontroller based technology
- 8 Channel input 4-20mA programmable by user
- Easy on-line field calibration
- Optional RS-485 MODBUS serial port

UIP-880-FLP



- Microcontroller based technology
- 8 Channel input 4-20mA programmable by user
- Easy on-line field calibration
- Optional RS-485 MODBUS serial port

Conventional Multichannel Gas Monitor (16 Channel)

UIP-1600-WP



- 16 Channel
- I/P 4-20mA
- 4 Common Relay O/P
- Add-on Relays
- Isolated RS-485 O/P
- USB data Logging
- IP65

UIP-1600-FLP



- 16 Channel
- I/P 4-20mA
- Add-on Relays
- 4 Common Relay O/P
- USB data Logging
- Isolated RS-485 O/P
- Ex d IIC T6 Gb
- IP66

Conventional Multi Channel Gas Monitoring Panel

• HMI Size Supported: IM-48 -16/24/32 7", 10.2" & 15"



- 4-20mA Input optional
- RS-485 Input
- RS-485 Output optional
- TCP / IP (Optional)
- Alarm indication
- 24 VDC or Potential free 8/16/24 channel Relay outputs for Valves & Alarms

RK-220-8 Channel



- 3 Digit LED Display
- 20 Segment Bar graph
- I/P : 4-20mA
- O/P : 4-20mA (Isolated)
- 4 Relay O/P
- RS-485 O/P (Isolated)
- Panel Size in mm : 500 x 500 x 400 (W) x (H) x (D)

RK-220-16 Channel



- 3 Digit LED Display
- 20 Segment Bar graph
- I/P : 4-20mA
- O/P : 4-20mA (Isolated)
- 4 Relay O/P
- RS-485 O/P (Isolated)
- Panel Size in mm : 600 x 600 x 400 (W) x (H) x (D)

Multichannel Gas Monitor Panel - 80 Channel

RK-220-80 Channel



- Per Channel
- 3 Digit LED Display
- 20 Segment Bar graph
- I/P : 4-20mA
- O/P : 4-20mA (Isolated)
- 4 Relay O/P
- RS-485 O/P (Isolated)
- SCADA Software
- Redundant Power Supply
- Ethernet (Optional)
- SMS Facility (Optional)

Complete Panel Size in mm : 2300 (H) x 600(W) x 600 (D)

Addressable Multichannel Gas Monitors with inbuilt GSM Modem (Upto 48 Channel)

SIG 4GTY-MS



- 4 DPDT Relay
- Isolated RS-485 O/P for SCADA/PLC
- MQTT Protocol
- 2 Settable Alarm for each channel
- Ethernet
- Wi-Fi
- Lamp Test facility

SIG 4GTY-WP



- 4 DPDT Relay
- Isolated RS-485 O/P for SCADA/PLC
- MQTT Protocol
- 2 Settable Alarm for each channel
- Ethernet • Wi-Fi
- Lamp Test facility

SIG 4GTY-FLP



- 4 DPDT Relay
- Isolated RS-485 O/P for SCADA/PLC
- MQTT Protocol
- 2 Settable Alarm for each channel
- Ex d IIC T6 Gb
- IP66
- SMS & Email Alerts

Addressable Multi Channel Gas Monitors (Upto 80 Channel)

MCC-1322-MS



- Modbus RS-485 Input
- 2 Common Relay
- 1 fault Relay
- Add-on Relay
- Isolated RS-485 O/P

MCC-1322-WP



- Modbus RS-485 Input
- 2 Common Relay
- 1 fault Relay
- Add-on Relay
- Isolated RS-485 O/P
- IP65

MCC-1322-FLP



- Modbus RS-485 Input
- 2 Common Relay
- 1 fault Relay
- Add-on Relay
- Isolated RS-485 O/P
- Ex d IIC T6 Gb
- IP66

MCC-1322-PANEL



- Modbus RS-485 Input
- 2 Common Relay
- 1 fault Relay
- Add-on Relay
- Isolated RS-485 O/P

Portable Single Gas Detector

PG-100-D



- Diffusion Type
- Intrinsically safe
- Pluggable Sensor Module
- EC/Catalytic/NDIR/PID
- STEL / TWA Alarms
- 50,000 log records
- > 10 hours backup
- USB interface
- Ex ia IIC T6 Ga

PG-100-S



- Suction Type
- Intrinsically safe
- Pluggable Sensor Module
- EC/Catalytic/NDIR/PID
- Integrated pump
- STEL/TWA Alarms
- 50,000 log records
- > 10 hours backup
- USB interface
- Ex ia IIC T6 Ga

Dual Channel Gas Detector

PG-200-D



- EC /NDIR sensor
- 2-Line LCD with backlight tri-colour display (Red/Green/Blue)
- STEL/TWA Alarms
- 50,000 log records
- > 10 hours backup
- USB interface

PG-200-S



- EC /NDIR sensor
- 2-Line LCD with backlight tri-colour display (Red/Green/Blue)
- STEL/TWA Alarms
- 50,000 log records
- > 10 hours backup
- USB interface

Portable Gas Detector

PG-130-LCD Display



- One-Button Simple Operation
- Man-Down Alarm Feature
- Panic Alarm Alert
- User-Settable Alarms & Alerts
- Vibration & LED Alerts
- High Sensitivity Electrochemical Sensor
- LCD Gas Concentration Display
- Non-Replaceable Lithium Battery

PG-130-O LED Display



- Single Button Easy Operation
- Clear Display in Darkness
- Real-Time Gas Concentration Display
- Man-Down Alarm for Safety
- Highly Sensitive Gas Sensor
- Toxic Gas Level Monitoring
- Rechargeable Long-Lasting Battery
- Data Logging, can be set as 1-3600 seconds
- Wireless Network - BLE Wireless Models only
- Wireless Frequency- Bluetooth 2402~2480 MHz Wireless Models Only

Battery Powered Gas Detector

PG-140 -LCD Display



- Simple One-Button Operation
- LCD Gas Concentration Display
- Password Protected Menu Access
- Man-Down Alarm Feature
- Panic Alarm Notification
- Vibration & LED Alerts
- Customizable Alarms & Alerts
- Vibrates for High Noise Levels
- Non-Replaceable Lithium Battery
- High Sensitivity Electrochemical Sensor
- Durable Anti-Drop Polycarbonate Housing

PG-140 -O LED Display



- Single Button Easy Operation
- Clear Display in Darkness
- Real-Time Gas Concentration Display
- Menu Access via Password
- Man-Down Alarm for Safety
- Toxic Gas Level Monitoring
- Rechargeable Long-Lasting Battery
- Data Logging, can be set as 1-3600 seconds
- Wireless Network - BLE Wireless Models only
- Wireless Frequency- Bluetooth 2402~2480 MHz Wireless Models Only

Portable Gas Detector

PG-150



- One-Button Operation
- LCD Gas Concentration Display
- Password Protected Menu
- Customizable Alarms & Alerts
- Vibration & LED Alerts
- Intrinsically Safe Design
- High Sensitivity Electrochemical Sensor
- Non-Replaceable Lithium Battery
- Durable Polycarbonate Housing

Smart Gas Analyzer - Oxygen

GA-3500-PM-O₂



- 0-100% V/V
- 2 Line L.E.D. Display
- Built in O₂ Sensor
- 4 -20mA O/P
- 3 Relay O/P
- RS-485 O/P
- Panel Mounted

GA-3511-PM-O₂



- 0-100% V/V
- 8 x 2 L.C.D. Display
- Built in O₂ Sensor
- 4 -20mA O/P
- 3 Relay O/P
- RS-485 O/P
- Panel Mounted

Portable Biogas Analyzer

BIO-400-S-PEL



- Special Suitcase casing
- 128 x 64, Graphic L.C.D. display & backlight
- Event logging
- CH₄, CO₂, O₂, H₂S Detection
- USB interface
- Optional 1,00,000 logging records
- Li-po rechargeable Battery

Biogas Analyzer - Panel Mount

BIO-400-S-PANEL



- Panel type housing
- 128 x 64, Graphic L.C.D. display & backlight
- Event logging
- USB interface
- CH₄, CO₂, O₂, H₂S Detection
- Optional 1,00,000 logging records
- Li-po rechargeable Battery

UV & Triple IR Flame Detector

FLD-3311-WP-HCF



- Fast response < 3 sec.
- UV & 3IR Detection
- 3 Relay O/P
- 4-20mA O/P
- Bluetooth, RS-485 or HART configurable
- Built in Hooter cum Flasher

UV & Triple IR Flame (Radiant Energy) Detector

FLD-3311-FLP-HCF



- Enclosure Patent No. 364963-001
- 3 Relay O/P
- 4-20mA O/P
- Exd IIC T6 IP66
- UV & 3IR Detection
- Fast response < 3 sec.
- Bluetooth, RS-485 or HART configurable

UV & Triple IR Flame Detector

FLD-3311-FLP-SS-HCF



- 3 Relay O/P
- 4-20mA O/P
- Exd IIC T6 IP66
- SS Enclosure
- UV & 3IR Detection
- Fast response < 3 sec.
- Bluetooth, RS-485 or HART configurable

Ember (Radiant Energy) Detector

EMB-7700-FLP-HCF



- Insensitive to sunlight
- Date-time stamped event logging
- Built in self test (BIT)
- User programmable via Bluetooth, HART or RS-485.
- Test Lamp compatibility for safe Test

UV Flame Detector

FLD-0011-Small



- UV Sensor Flame Detection
- Detects All Flame Sizes
- Configurable via RS-485
- Test Lamp Compatibility
- Flexible Output Options
- Defined Visual Detection Range
- Customizable Detection Zones
- Fast, Accurate Flame Response
- Multiple output options for maximum flexibility & compatibility • Optional MODBUS Communication
- Relay for Free Contact

Flame Detector Mounting Stand

Mounting stand



- Total Length 275 mm
- Material : Aluminium (LM-6)
- 180° Rotation

Flame Detector Sun Shield

JB IIC Sunshield



- Diameter (Outer) : JB IIC : 149 mm
- JB 90 : 112 mm
- Total Length : JB IIC : 126 mm
- JB 90 : 103 mm
- Material : Neoprene rubber

Sun Shield



Fixed Temperature Heat Detector

HTD-8800-FLP



- Enclosure Patent No. 335348-001
- Detects fixed Temp. & Provides a Potential-Free NO contact Output.
- Wide ranges of Temp. 40°C to 90°C

HTD-8811-WP



- Provides a fast & reliable response by sensing heat build-up
- Factory Preset to required Temp.
- Wide ranges of Temp. 50°C to 60°C

Fixed Temperature Heat Detector

HTD-8822-WP



- Provides a fast & reliable response by sensing heat build-up
- Factory Preset to required Temp.
- No maintenance, No calibration
- Auto-reset operation
- Easy to install
- Wide ranges of Temp. 50°C to 60°C

UV/IR Flame Detector Test Lamp

FTU-3311



- Battery Operated
- Cover Range : 3 to 5 meter
- Continuous Operation time : 1 hr. 30 min. Max.
- Operating Temp. : 0°C to 50°C

	Multi Channel Gas Monitor			Dual Channel Gas Monitor		Multi Channel
Model No.:	GM-2200-WP	GM-2200-FLP	GM-416-WP	GM-416-FLP	GM-416-MS	TC-800-WP
 Product Specifications						
GENERAL						
Channel Capacity : 1CH./2CH./4CH./6CH./8CH./12CH.upto-80CH	2 CH.	2 CH.	8CH./16CH./24 CH.	8CH./16CH./24 CH.	8CH./16CH./24 CH.	8 CH.
Input	4-20mA from Gas Transmitter Toxic / Combustible / VOC / IR/UV Flame Detector Etc.		Digital Input	Digital Input	Digital Input	4-20mA from Gas Transmitter Toxic / Combustible / VOC / IR/UV Flame Detector Etc.
Output : • Isolated 4-20mA	✓	✓	✗	✗	✗	✗
• No. of Relay Output	3	3	3	3	3	2
• Isolated RS-485 (Optional)	✓	✓	✓	✓	✓	✓
Keys for Settings : • 3 Keys • 4 Keys • 5 Keys	4 Keys	4 Keys	3 Keys	3 Keys	3 Keys	5 Keys
Display : Single / Dual Display	2 Line x 4 Digit L.E.D. Display	2 Line x 4 Digit L.E.D. Display	Dual Display	Dual Display	Dual Display	1 Line x 5 Digit L.E.D. Display
Range :	0 to 9999 PPM, % LEL, % V/V	0 to 9999 PPM, % LEL, % V/V	0 to 9999 PPM, % LEL, % V/V	0 to 9999 PPM, % LEL, % V/V	0 to 9999 PPM, % LEL, % V/V	0 to 9999 PPM, % LEL, % V/V
Resolution :	Programmable 0.001, 0.01, 0.1, 1	Programmable 0.001, 0.01, 0.1, 1	Programmable 0, 0.1, 0.01	Programmable 0, 0.1, 0.01	Programmable 0, 0.1, 0.01	Programmable 0.001, 0.01, 0.1, 1
Control Action :	Very LO/LO & HI/very Hi logic Programmable by user	Very LO/LO & HI/very Hi logic Programmable by user	High /Very Hi Programmable by user	High /Very Hi Programmable by user	High /Very Hi Programmable by user	LO/HI, HI/LO, LO/Very LO, Hi-very Hi logic Programmable by user
LED Indication :	3mm, 7 LED indication for AL1, AL2, TD1, TD2, PRG, TX, RX	3mm, 7 LED indication for AL1, AL2, TD1, TD2, PRG, TX, RX	3mm, 32 LED indication	3mm, 32 LED indication	3mm, 32 LED indication	8 No. RED LED for Alarm Indications of both set points AL1, AL2
SUPPLY VOLTAGE	100 V AC to 270 V AC					
ENVIRONMENTAL	-10°C to 60°C & Less than 95% Non-Condensing.					
Operating Temp. & Humidity :						
HOUSING						
Cabinet :	Weatherproof	Flameproof	Weatherproof	Flameproof	MS Panel	Weatherproof
Cabinet Material : • Polycarbonate , Grey Colour	ABS Plastic	✗	ABS Plastic	✗	✗	ABS Plastic
• Diecast Aluminium alloy	✗	✓	✗	✓	✗	✗
• Metal sheet Siemens Grey colour	✗	✗	✗	✗	✓	✗
Protection Class : • IP54 • IP65 • IP66	IP65	IP66	IP65	IP66	IP54	IP65
Enclosure Approval : • Ex d IIC T6 Gb	✗	✓	✗	✓	✗	✗
• CIMFR Tested / PESO Approved	✗	✓	✗	✓	✗	✗
Dimension : in mm	195(H) x 200 (W) x 110 (D)	260(H) x 252(W) x 154(D)	195(H) x 200 (W) x 110 (D)	260(H) x 252(W) x 154(D)	235(H) x 200(W) x 90(D)	330(H) x 280(W) x 110(D)
Cable Entry :	8	8	6	8	6	10
Cable Gland :	Polyamide Gland	Double Compression	Polyamide Gland	Double Compression	Single Compression	Thermoplastic
Mounting :	• Wall • Stand	• Wall • Stand	• Wall • Stand	• Wall • Stand	• Wall • Stand	• Wall • Stand
Weight :	1kg	12 kg	1kg	5.5 kg	2.25 kg.	2kg

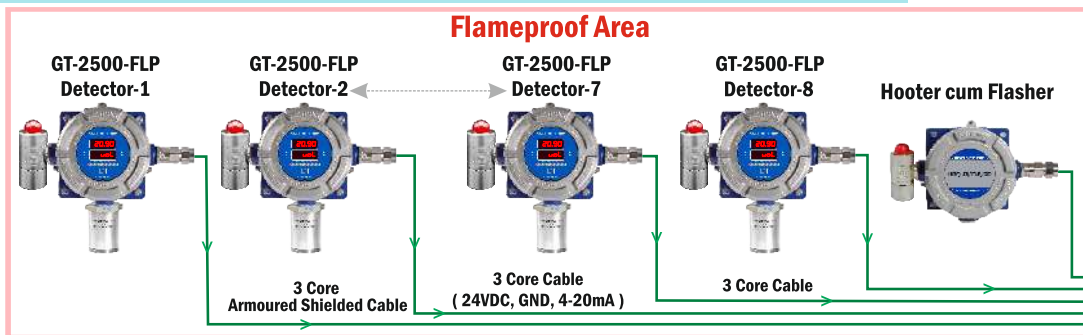
ACCESSORIES (OPTIONAL) :

- CE certified 24VDC Power Supply
- Hooter cum Flasher
- PC based SCADA Software, Modem
- RS-485 to USB Converter
- Mounting Stand
- Flameproof Hooter
- Iot Modules
- Cloud : ambeiiot.com

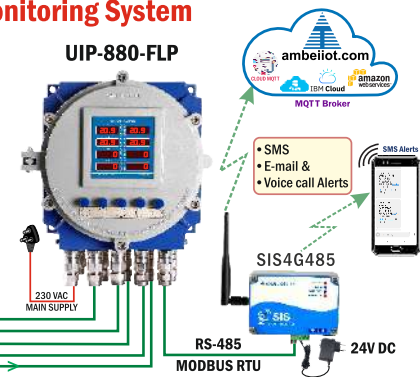
RANGE OF GAS MONITORS & PANELS

Gas Monitor (8 Channel)		Multi Channel Gas Monitor (16 Channel)			Multi Channel Gas Monitor Panel		
TC-800-FLP	UIP-880-WP	UIP-880-FLP	UIP-1600-WP	UIP-1600-FLP	HMI PANEL-IM-48	RK-220- 8CH.	RK-220- 16CH.
							
8 CH.	8 CH.	16 CH.	16 CH.	16 CH.	4, 8,16, 48 CH.	Individual Channel 8	Individual Channel 16,32,48
4-20mA from Gas Transmitter Toxic / Combustible / VOC / IR / UV Flame Detector Etc.							
×	×	×	×	×	×	Per Channel ✓	Per Channel ✓
2	4	4	4	4	4, 8,16, 24 CH.	4 Per Channel	4 Per Channel
✓	✓	✓	✓	✓	✓	✓	✓
5	5	5	5	5	Setting on HMI Screen	4	4
1 Line x 5 Digit L.E.D. Display	8 x 4 Digits L.E.D. Display	8 x 4 Digits L.E.D. Display	1 Line x 6 Digit L.E.D. Display	1 Line x 6 Digit L.E.D. Display	4.3", 7", 10.2" & 15" L.C.D. Display	3 Digit L.E.D. Display for per card	3 Digit L.E.D. Display for per card
0 to 9999 PPM, % LEL, % V/V	0 to 9999 Programmable by user	0 to 9999 Programmable by user	0 -9999 PPM, % LEL, % V/V	0 -9999 PPM, % LEL, % V/V	Programmable	0 to 999 PPM, % LEL, % V/V	0 to 999 PPM, % LEL, % V/V
Programmable 0.001, 0.01, 0.1, 1	Programmable 0.01, 0.1, 1	Programmable 0.01, 0.1, 1	Programmable 0.001, 0.01, 0.1, 1	Programmable 0.001, 0.01, 0.1, 1	Programmable 0.01, 0.1, 1	Programmable 0.001, 0.01, 0.1, 1	Programmable 0.001, 0.01, 0.1, 1
LO/HI, HI/LO, LO/Very LO, HI-very HI logic Programmable by user	LO/HI, control action for the Alarm 1 & 2 user Programmable				LO/HI, HI/LO, LO/Very LO, HI-very HI logic Programmable by user		
8 No. RED LED for Alarm Indications of both set points AL1, AL2	8 No. RED L.E.D.'s each for Alalrm-1 & Alarm-2, healthy indications for CH-1 to CH-8		8/16 Nos. RED L.E.D.'s of 3mm each for Alarm 1 & 2 Healthy indications for CH-1 to CH-8/CH-1 to CH-16 for UIP-1600 respectively.		Per channel indication on HMI	8 No. AL1, AL2, AL3, Health Check/Failsafe Indication PRG, CALOptional TX / RX	16 No. AL1, AL2, AL3, Health Check/Failsafe Indication PRG, CALOptional TX / RX
100 V AC to 270 V AC							
-10°C to 60°C & Less than 95% Non-Condensing.							
Flameproof	Weatherproof	Flameproof	Weatherproof	Flameproof	MS Panel	MS Panel	MS Panel
×	ABS Plastic	×	ABS Plastic	×	×	×	×
✓	×	✓	×	✓	×	×	×
×	×	×	×	×	✓	✓	✓
IP66	IP65	IP66	IP65	IP66	IP54	IP54	IP54
✓	×	✓	×	✓	×	×	×
✓	×	✓	×	✓	×	×	×
356(H) x316(W)x183(D)	330(H)x280(W) x105(D)	356(H) x316(W) x183(D)	327(H)x335(W)x150(D)	448(H)x431(W)x210(D)	400(H)x400(W)x250(D)	500(H)x500(W)x400(D)	600(H)x 600(W)x 400(D)
10	10	10	19	22	as per channel requirement	16	24
Double Compression	Single Compression	Double Compression	Single Compression	Double Compression	Single Compression	Single Compression	Single Compression
• Wall • Stand	• Wall • Stand	• Wall • Stand	• Wall • Stand	• Wall • Stand	• Wall • Stand	• Wall • Stand	• Wall • Stand
12 kg	2 kg	12 kg	2.5 kg	22 kg	30 kg	30 kg	34 kg
• CE certified 24VDC Power Supply • Mounting Stand • Hooter cum Flasher • Flameproof Hooter • PC based SCADA Software, Modem • lot Modules • RS-485 to USB Converter • Cloud : ambeiiot.com							

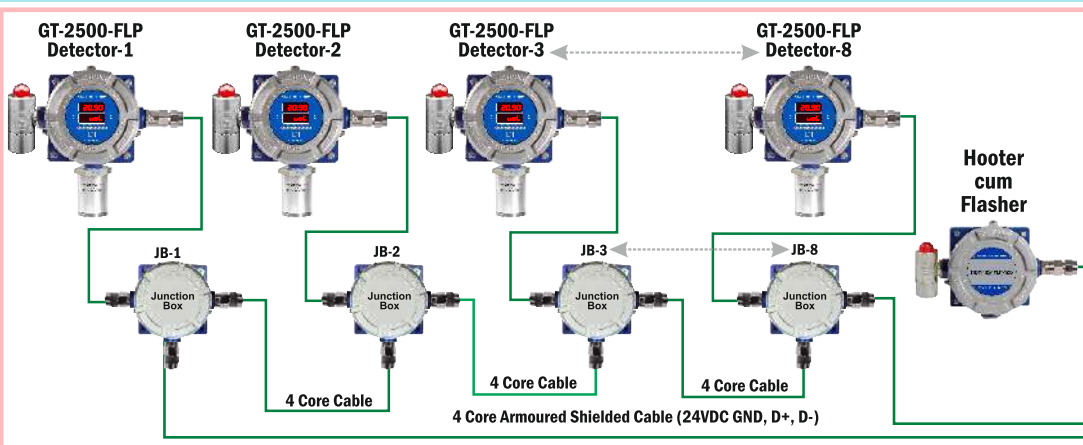
Conventional Multi Channel Oxygen Monitoring System



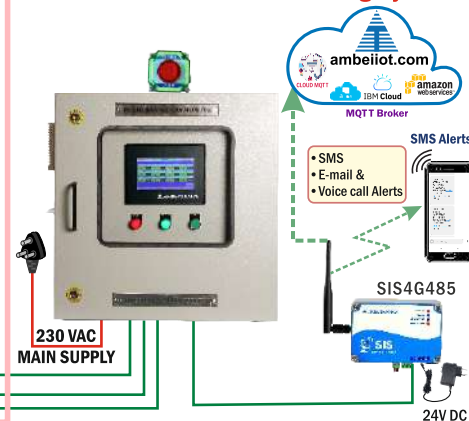
8 Channel Gas Monitoring System



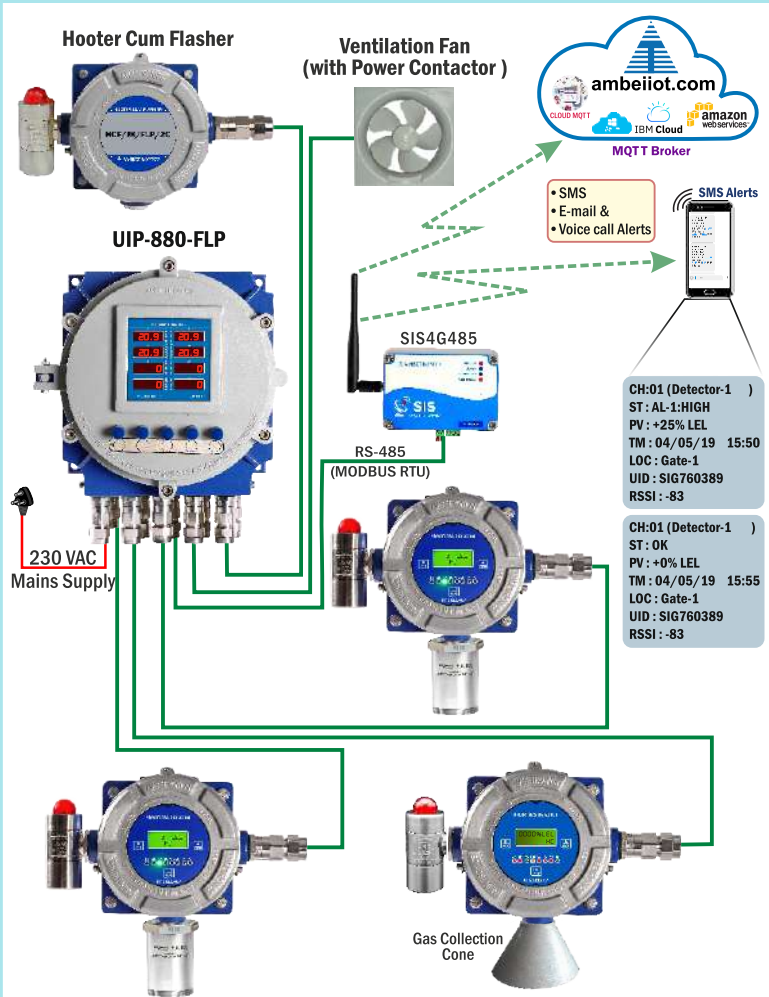
Addressable Multi Channel Oxygen Monitoring System with SMS/ E-mail /Voice call / cloud facility



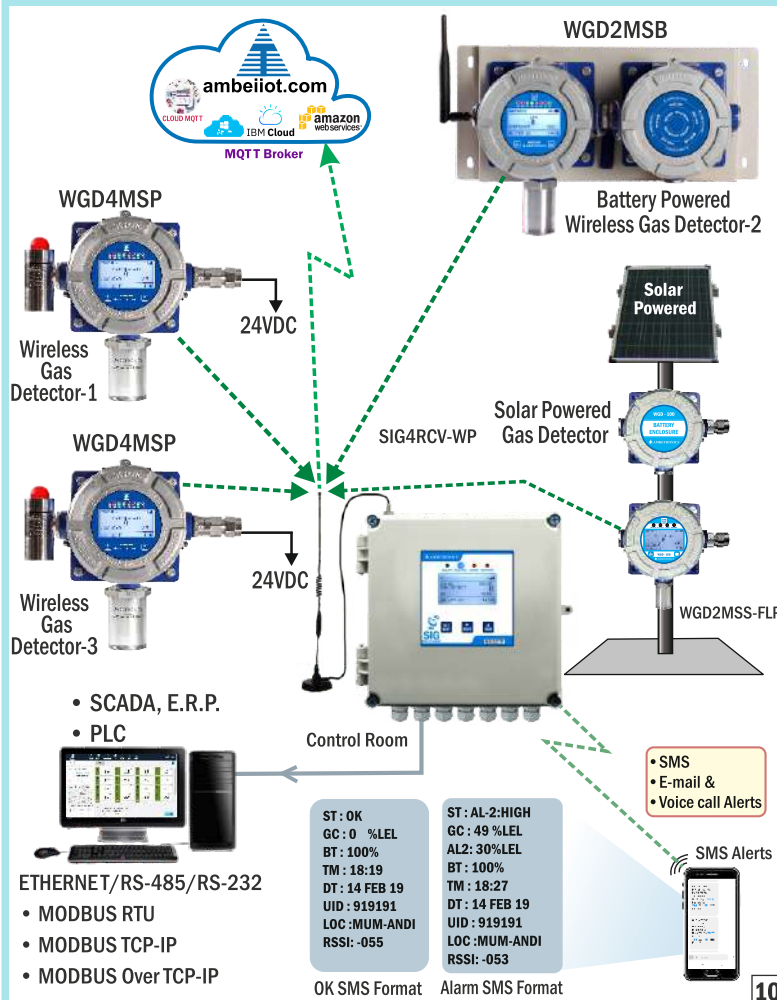
Multi Channel Gas Monitoring System



Hydrogen Gas Detection System for Battery Room With SMS/E-mail /Voice call / cloud facility

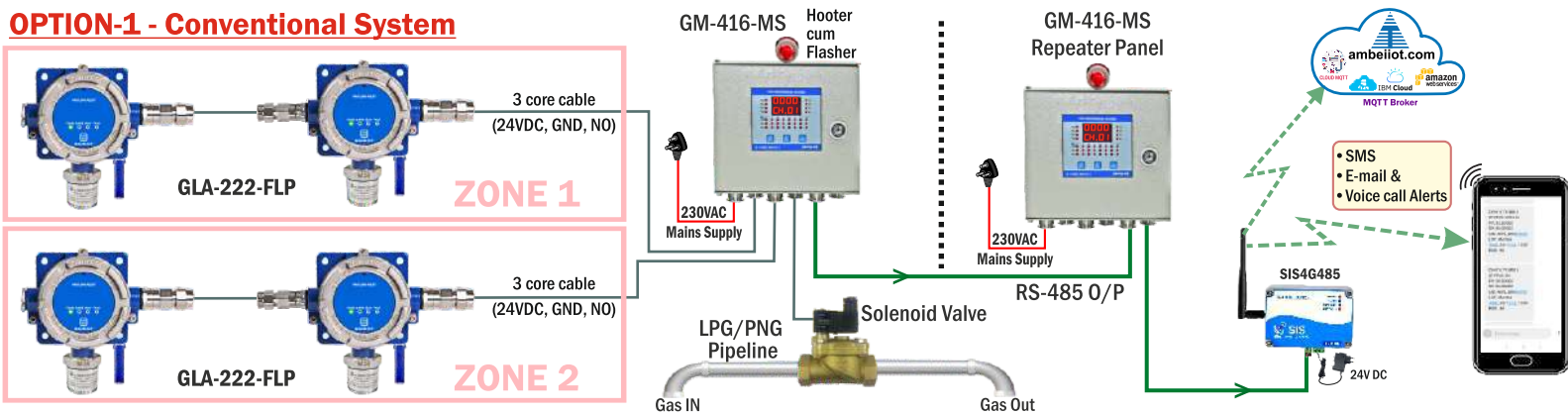


Wireless Gas Detection System with SMS/ E-mail /cloud facility

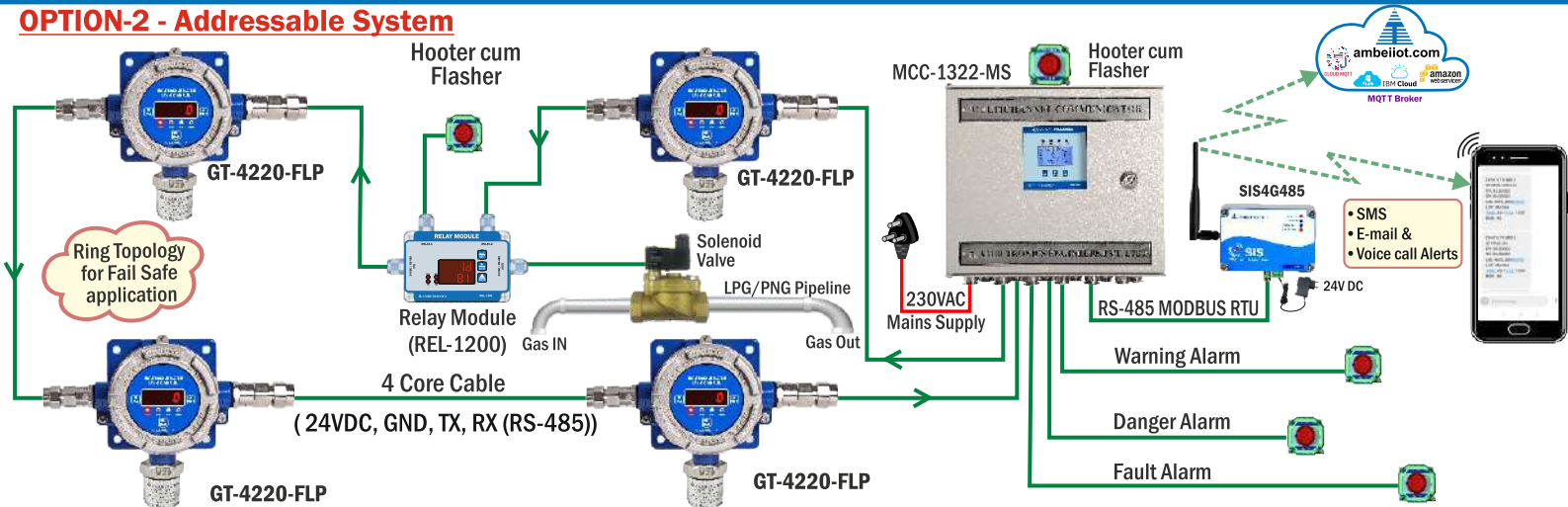


LPG/PNG Gas Leakage System with SMS/E-mail/Voice call/cloud facility for commercial Kitchen

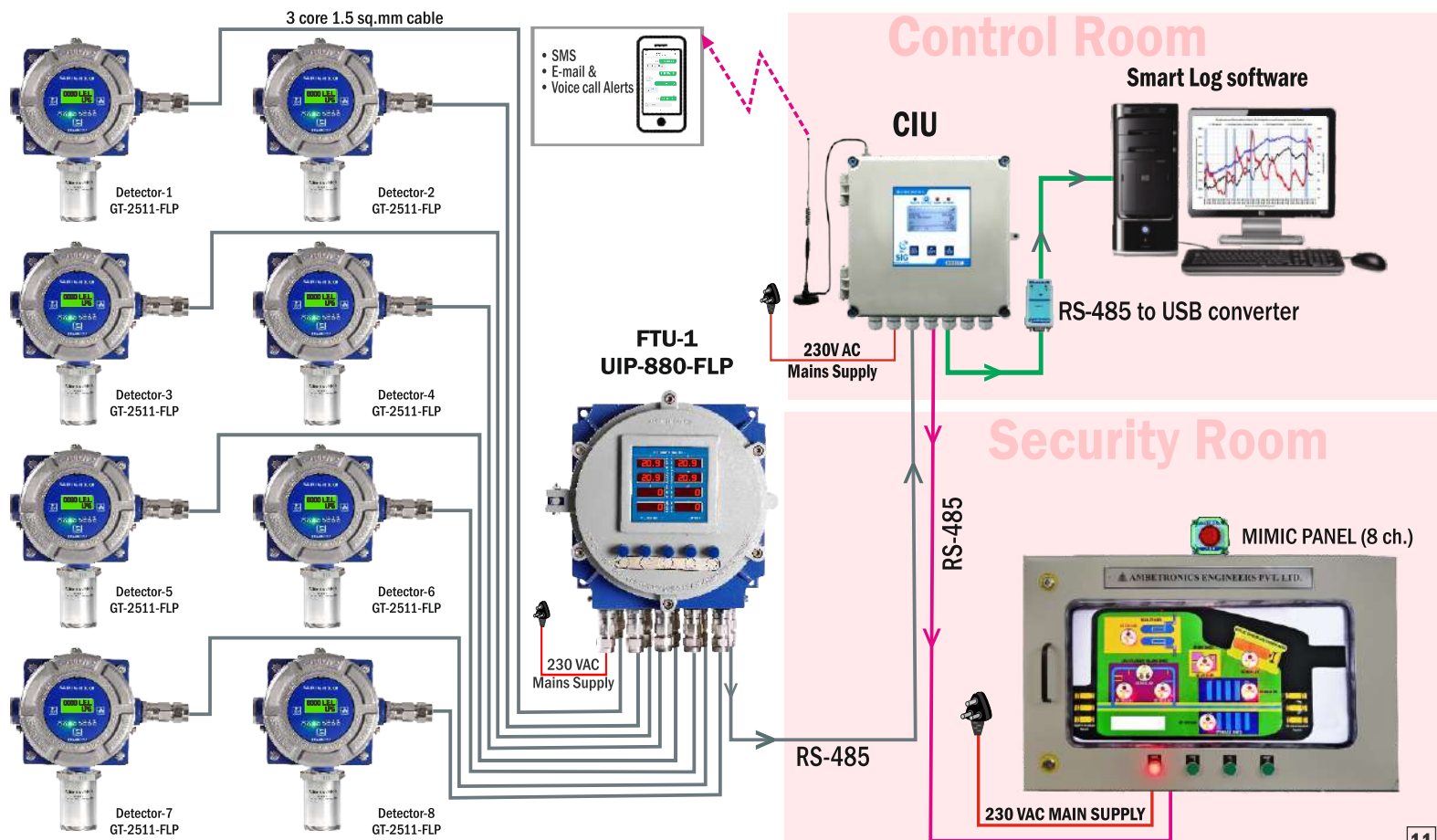
OPTION-1 - Conventional System



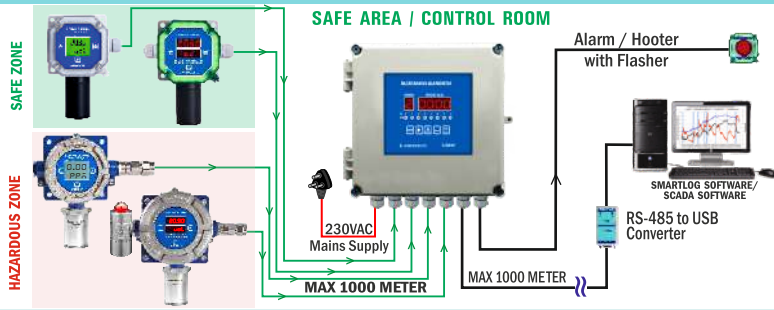
OPTION-2 - Addressable System



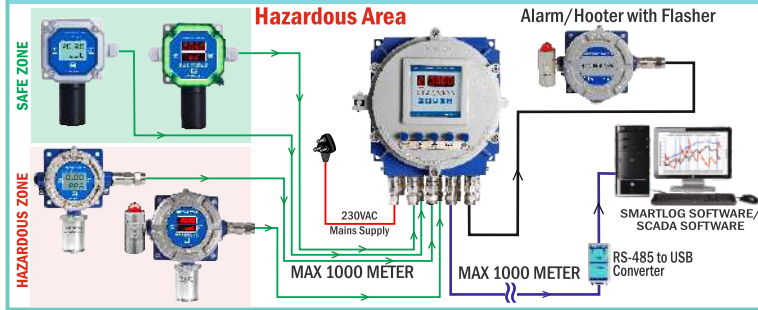
LPG Detector with FTU, Mimic Panel & Smart IoT Gate Way for Bottling Plant (IOCL, BPCL, HPCL)



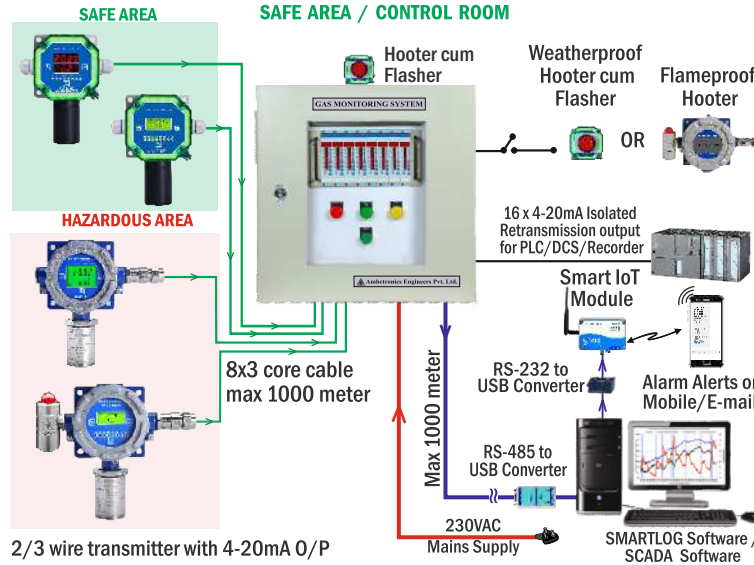
8 CHANNEL GAS MONITORING SYSTEM - WEATHERPROOF - TC-800-WP



8 CHANNEL GAS MONITORING SYSTEM - FLAMEPROOF - TC-800-FLP

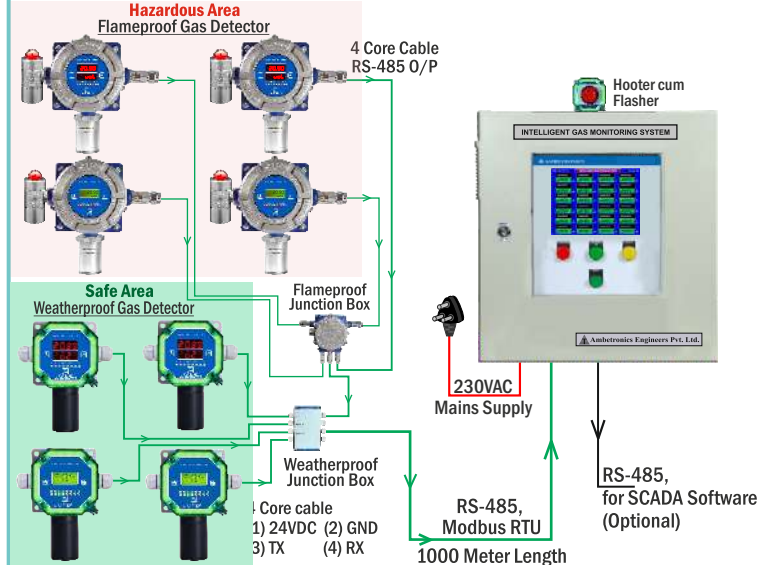


MULTICHANNEL GAS MONITORING SYSTEM - 8 CHANNEL RK-220 - PANEL

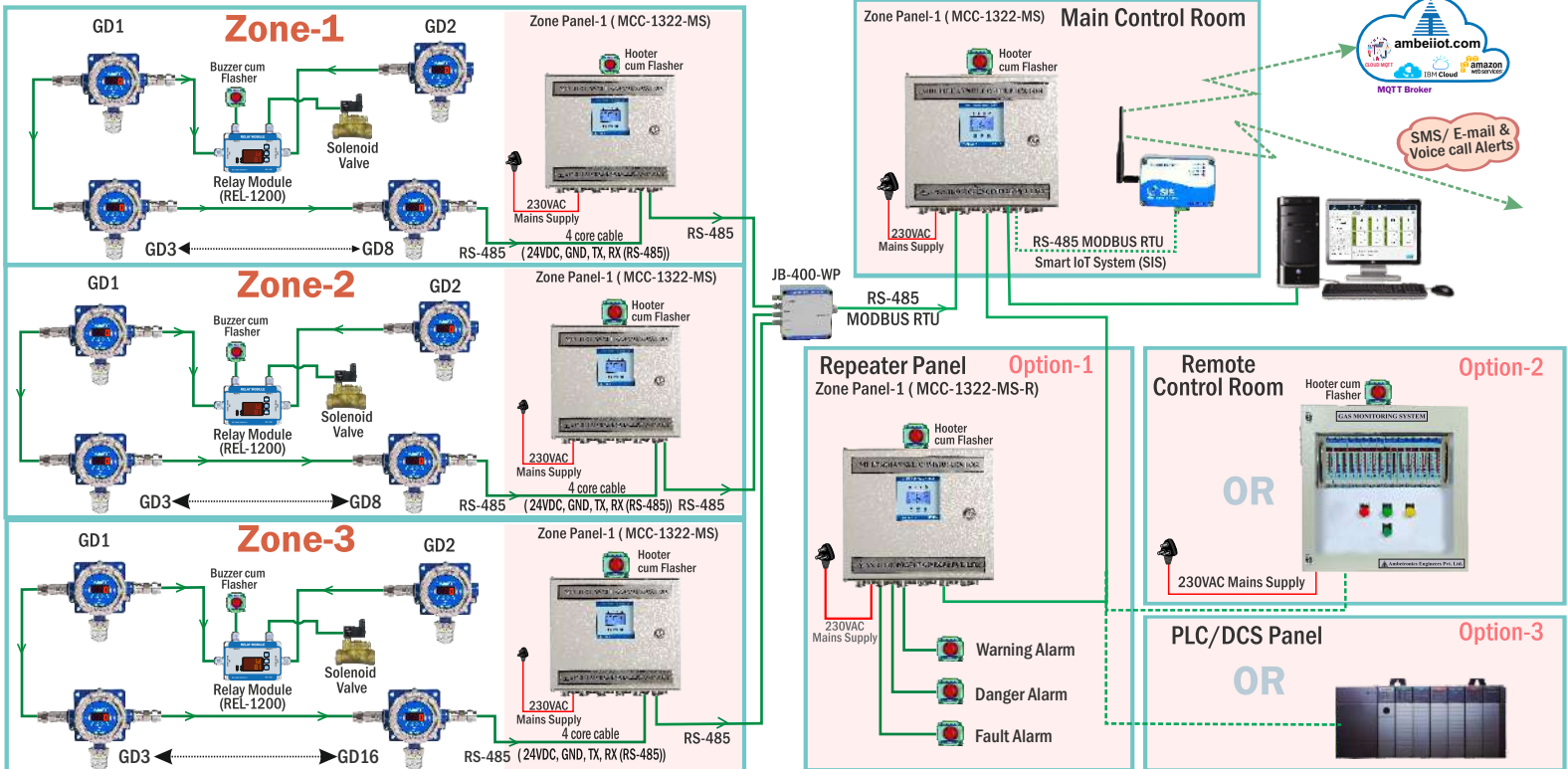


INTELLIGENT GAS MONITORING SYSTEM

IM-48-XX-MS SERIES



ADDRESSABLE LPG GAS DETECTION SYSTEM WITH REMOTE ALARM & REPEATER PANEL



Manufactured by :



AMBETRONICS ENGINEERS PVT. LTD.

17-B, 16, 14A, Tarun Industrial Estate, New Nagardas Road, Mogra Pada, Andheri (E.) Mumbai - 400 069, India.

Version :
GAS MASTER CATALOGUE-R17-01-06-2025