AMBETRONICS
AN ISO 9001:2015 CERTIFIED COMPANY

TÜV INDIA — ISO 9001 Certified
TÜV NORD — ISO 9001

30+ Years of Expertise

Largest Manufacturer of India
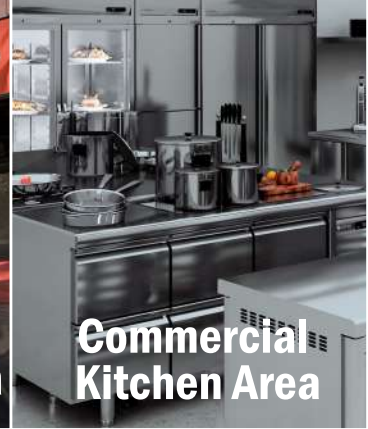
Visit our Factory for Live Demonstration

Server Room

Diesel Generator Room

ETP / STP Plant

Battery Room

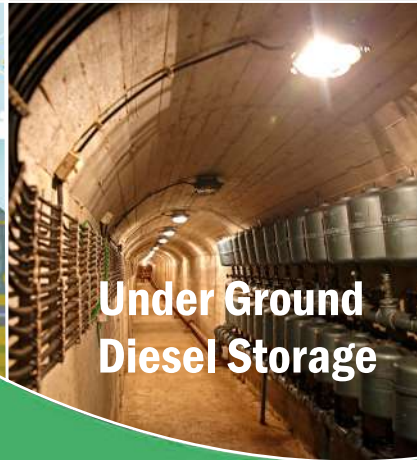Diesel Pumping Area

Commercial Kitchen Area

IoT

Under Ground Diesel Storage

Car Parking Area

Manufacturing of :
- Toxic Gas Detectors/Transmitters
- HC Gas Detectors/Transmitters
- Oxygen Gas Detectors/Transmitters
- UV /IR Flame and Heat Detectors
- 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
- Customize Development
- Repairing and Calibration of any Make and any Model

Product Range for
Data Center Segment
Technical Datasheet

+91-22-6962 3365
+91-22-6962 3360

+91-93207 37646
+91-91674 18106

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sales11@ambetronics.com

MAKE IN INDIA
www.ambetronics.com

FLD-3311-FLP - Flame Detector

Approval & Compliance

Approval & Compliance for Flameproof :

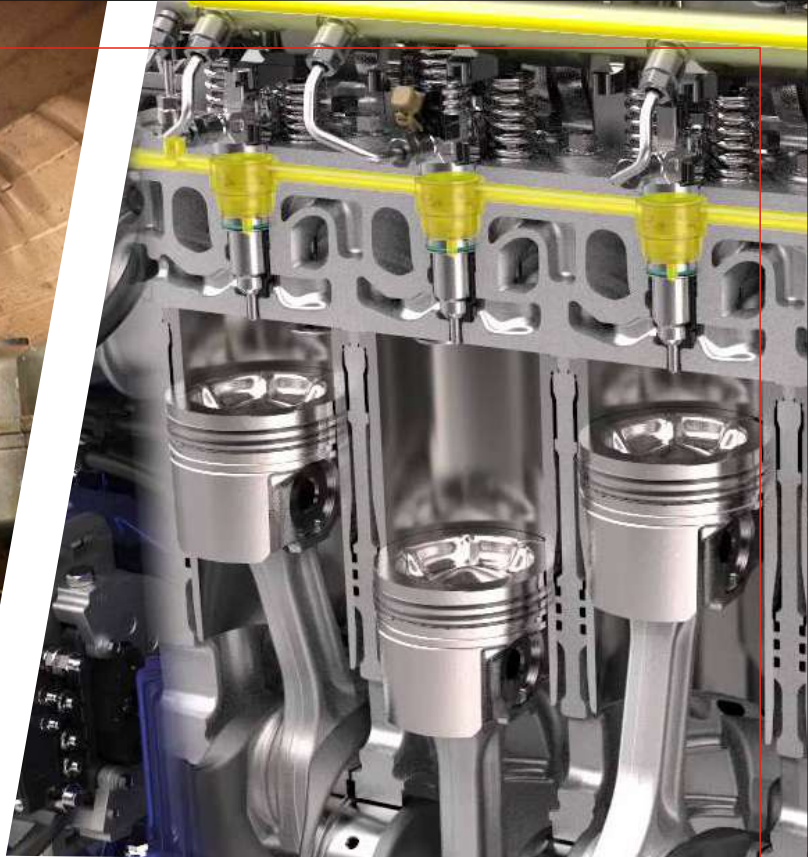| IIC Approval :	CIMFR Test Report No.	PESO Certificate No.
Certified to Ex d IIC T6 Gb, @ 60°C IP68 Standard Compliance : • IS/IEC 60079-0 : 2017 • IS/IEC 60079-1 : 2014 • IS/IEC 60529 : 2001	IN/CIMFR/TR20/3034 Dt.: 10/11/2020	P538850/8 Dt.: 16/06/2022
	BIS LICENSE NUMBER	7800046916

Features :

- Detector detects Multi-Spectral Sensitivity of fire by using UV & IR sensors
- Clear Line of Sight visual range (upto specific distance)
- Triple Spectrum Design- For long distance detection & Excellent false alarm immunity
- Sensitivity Selection – To ensure no zone cross over detection.
- High sensitivity combined with fast response time to ensure rapid & accurate flame detection.
- Multiple output options for maximum flexibility and compatibility.
  - (3) Relays for FLAME DETECTION, AUXILIARY and FAULT
  - Optional HART protocol for configuration setting
  - RS-485, MODBUS compatible
- User programmable via Bluetooth, HART or RS-485.
- Own Design UV/3IR Sensor
- 4 Sensor Combination Available
- Air shield for clean optics (optional)
- Mobile alert (LoRa/WiFi) (optional)
- Connectivity via IoT (optional)
- Test Lamp compatibility for safe Test
- Output compatible to any make Fire Alarm Panel.

②

Underground Diesel Storage Area

Diesel Fuel Processing

HTD-8822-FLP -Heat Detector

Introduction :

Ambetronics Heat Detectors are highly reliable & accurate thermal detection devices. They are used to sense overheat or fire in form of Temperature rise for a particular application.

The Heat Detector is a Device which is capable of detecting Rise in Ambient Temp. and providing an actuating signal i.e. an alarm to alert the system and to actuate a precautionary measure.

Fixed Temperature Heat Detectors are factory preset to a particular temperature (according to the customer's requirement) When connected to system, if temperature rises above the temperature set point, the Heat Detector will be activated.

Features :

- Provides a fast & reliable response by sensing heat build-up i.e. Overheat in Ambient Temp.

- Auto-reset Operation. Reset itself after Temp. cool down.

- User Friendly, Plug and Play operation, easy testing.

- Visual display indication and also dedicated Hooter cum Flasher port.

- Factory Preset to required Temp.

- Wide ranges of Temp. 40°C to 210°C

- Low power consumption (<3W).

- No maintenance, No calibration.

③

Range of Flame (Radiant Energy) Detectors

UV & Triple IR Flame (Radiant Energy) Detector
FLD-3311-FLP

Triple IR Flame (Radiant Energy) Detector
FLD-3300-FLP

UV & DUAL IR Flame (Radiant Energy) Detector
FLD-2211-FLP

Single IR Flame (Radiant Energy) Detector
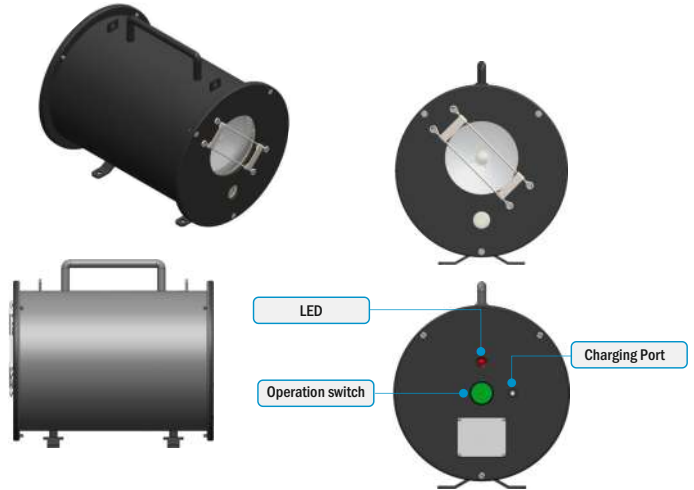### FLD-1100-FLP

UV & IR Flame (Radiant Energy) Detector
FLD-1111-FLP

UV Flame (Radiant Energy) Detector
FLD-0011-FLP

UV/IR Flame Detector Test Lamp

FTU-3311

LED

Charging Port

Operation switch

Specifications

- Cover range : 3 to 5 Meter
- Flame Detector : UV/IR flame detector (Contact Ambetronics for details)
- Continuous operation time : 1hr 30min. Maximum
- Operating Temp. : 0^{0} to $50\mathrm{C}$
- Weight : 5.5 Kg approx.
- Dimension : 250 mm(L) x 200 mm(W) x 240 mm(H)
- Enclosure : Alumunium (Anodizing Process) & Mild Steel (MS)

Flame Detector Accessories

Flame Detector With Mounting Stand
- Total Length 275 mm
- 180° Rotation
- Material : Aluminium (LM-6)/SS316

Flame Detector Sun Shield
JB IIC Sunshield   JB 90 Sunshield
- Total Length : • JB IIC : 126 mm
                • JB 90 : 103 mm
- Material : Neoprence rubber

Flame Detector With Air Purging Unit
- Insensitive to sunlight
- Date-time stamped event logging

Range of Heat Detectors

Heat Detector
HTD-8800-FLP
- NO/NC Contacts
- Without Display

Heat Detector
HTD-8811-FLP
- 24VDC supply
- NO/NC Contacts
- 4 to 20mA O/P

Heat Detector
HTD-8822-FLP
- 24VDC supply
- RS-485 O/P

4

Diesel Unloading

Tank Yard Storage

GT-2500-FLP - Gas Detector

Features :

- Provides a fast reliable output for detection a smallest leak of Oxygen, Toxic, Combustible and Volatile Organic Compounds (VOC).

- Provision for smart – Pluggable gas sensor module for Oxygen, Toxic, Combustible, PID & NDIR sensors.

- Calibration data, Alarm data, Offset data, Output current data is saved in the particular sensor module, for easy maintenance & servicing.

- Highly resistant to poisoning and etching.

- Capable of detecting down to PPM, %V/V, %LEL, mg/m3.

- 2-Line, 4-Digit 8 mm (H) Seven Segment LED Display & 8 LEDs to indicate status of instrument

- Indication for 'Sensor Open', 'Over Range', 'Sensor Replace', 'Cal Due', 'Cal Fail', mA Loop Open.

- Standard 4-20mA signal output with configurable range.

- Optional STEL and TWA set points can be configured for Toxic & VOC Gases.

- Optional RS-485 Communication Port with MODBUS RTU PROTOCOL.

- Non - Intrusive programming for Flameproof Model using Magnetic Wand.

- Password protected programming with Password Changing Facility.

- Alarm Acknowledgement Facility from front as well as rare terminal.

- 'Test Mode' provided to check the electronics as Alarm LEDs, Relays, Output current/voltage with or without sensor module.

- Optional Alarm Relay contacts on board with two configurable Alarm Levels & One Fail Safe Relay.

⑤

Battery Room (Solution for Lithium Ion)
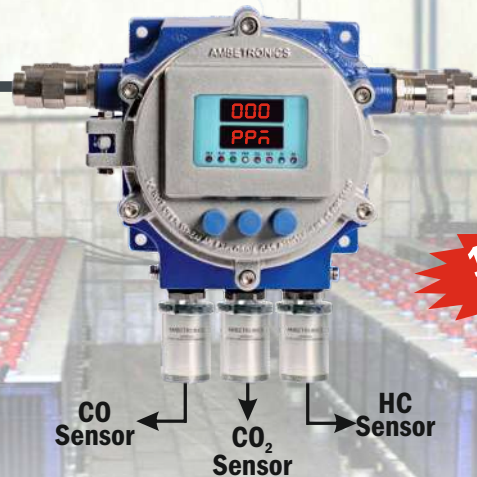
GT-2500-FLP HF Detector

GT-2500-FLP H2 Detector

Multi Gas Detector
GT-2500-FLP - JB-150

PESO

1st time in India

CO Sensor

CO$_2$ Sensor

HC Sensor

Range :
- 0 to 1000 PPM - CO
- 0 to 5000 PPM - CO$_2$
- 0 to 100% LEL - HC
- 0 to 100% LEL - H$_2$
- 0 to 10 PPM - HF

Approvals :
- Certified CIMFR
- BIS Tested and PESO approved
- INTRINSICALLY SAFE Enclosure.
- CE mark and RoHS (Restriction of Hazardous Substances Directive) Compliance
- EMI & EMC Compliance: EN-50270, IEC 61000-6-4
- Individual Enclosure check & Pressure Test done as per IEC 60079-1

Features : Gas Detectors
- Provides a fast reliable output for detection a smallest leak of Toxic and Combustible Gases emitted in Battery Rooms.
- Lithium Ion Batteries fires toxic gases like HF, CO & CO2 while over heating due to over charging of or short circuiting.
- Enclosure: Protection Class: IP66 / IP68
- Hot Swappable Smart sensor with Calibration memory Inside Sensor
- Sensor can be replace on site immediately if require
- for Projects Smart sensor can be supplied at the time of execution of Project so to prevent life of sensor during idle period.
- Highly resistant to poisoning and etching due to special coating
- Automatic Calibration due alert for easy maintenance
- Non-Intrusive programming for using Magnetic Wand.
- Password protected programming with changing facility.
- Standard 4-20mA signal output with configurable range.
- Optional RS-485 Communication Port with MODBUS RTU PROTOCOL.
- Non-Intrusive programming for Flameproof Model using front push button.
- Password protected programming with Password Changing Facility.
- Alarm Acknowledgment Facility from front as well as rear terminal.
- 'Test Mode' provided to check the electronics as Alarm LEDs, Relays, Output current/voltage with or without sensor module.
- Optional Alarm Relay contacts on board with two configurable Alarm Levels & One Fail Safe Relay.
- Output compatible to any make Fire Alarm Panel.

Battery Room (Solution fo VRLA Battery)

GT-2500-FLP H2 Detector

Junction Box with SMPS

230VAC Mains Supply

Range :

- 0 to 1000 PPM - CO
- 0 to 5000 PPM - CO_2
- 0 to 100% LEL - HC
- 0 to 100% LEL - H_2
- 0 to 10 PPM - HF

Approvals :

- Certified CIMFR
- BIS Tested and PESO approved
- INTRINSICALLY SAFE Enclosure.
- CE mark and RoHS (Restriction of Hazardous Substances Directive) Compliance
- EMI & EMC Compliance: EN-50270, IEC 61000-6-4
- Individual Enclosure check & Pressure Test done as per IEC 60079-1

Features : Gas Detectors

- Provides a fast reliable output for detection a smallest leak of Toxic and Combustible Gases emitted in Battery Rooms.
- Lithium Ion Batteries fires toxic gases like HF, CO & CO2 while over heating due to over charging of or short circuiting.
- Enclosure: Protection Class: IP66 / IP68
- Hot Swappable Smart sensor with Calibration memory Inside Sensor
- Sensor can be replace on site immediately if require
- Common inventory for all different type Gas Detector so reduces the cost
- for Projects Smart sensor can be supplied at the time of execution of Project so to prevent life of sensor during idle period.
- Highly resistant to poisoning and etching due to special coating
- Automatic Calibration due alert for easy maintenance
- Non-Intrusive programming for using Magnetic Wand.
- Password protected programming with changing facility.
- Reverse Polarity Protection
- Standard 4-20mA signal output with configurable range.
- Optional RS-485 Communication Port with MODBUS RTU PROTOCOL.
- Non-Intrusive programming for Flameproof Model using front push button.
- Password protected programming with Password Changing Facility.
- Alarm Acknowledgment Facility from front as well as rear terminal.
- 'Test Mode' provided to check the electronics as Alarm LEDs, Relays, Output current/voltage with or without sensor module.
- Optional Alarm Relay contacts on board with two configurable Alarm Levels & One Fail Safe Relay.
- Output compatible to any make Fire Alarm Panel.

⑦

Fire Suppression in Server Room

GT-2500-WP O2 Sensor

GT-2511-WP SOX / NOX Sensor

TRH-554-WP Transmitter

Features :

- Provides a fast reliable output for detection a smallest leak of Toxic and Combustible Gases emitted in Battery Rooms.
- Enclosure: Protection Class: IP65
- Hot Swappable Smart sensor with Calibration memory Inside Sensor.
- Sensor can be replace on site immediately if require.
- Common inventory for all different type Gas Detector so reduces spares cost.
- for Projects Smart sensor can be supplied at the time of execution of Project so to prevent life of sensor during idle period.
- Highly resistant to poisoning and etching due to special coating
- Automatic Calibration due alert for easy maintenance
- Non-Intrusive programming for using Magnetic Wand.
- Password protected programming with changing facility.
- Reverse Polarity Protection
- Standard 4-20mA signal output with configurable range.
- Standard 0-10V/0-5V/ 0-1V signal output with configurable range.
- Optional RS-485 Communication Port with MODBUS RTU PROTOCOL.
- 2 KV Isolated RS-485 Modbus Communication RTU
- Non-Intrusive programming for Flameproof Model using front push button.
- Password protected programming with Password Changing Facility.
- Alarm Acknowledgment Facility from front as well as rear terminal.
- 'Test Mode' provided to check the electronics as Alarm LEDs, Relays, Output current/voltage with or without sensor module.
- Optional Alarm Relay contacts on board with two configurable Alarm Levels & One Fail Safe Relay.
- Output compatible to any make Fire Alarm Panel.

Features :

- Temperature range is -20 to 60ºC with accuracy of ± 0.5 ºC.
- Relative Humidity range is 0 to 100%RH with accuracy of ± 2%RH.
- Standard 4-20mA signal outputs with configurable range.
- Optional Isolated RS-485 communication port with MODBUS RTU Protocol.
- Software calibration for both Temperature & Relative Humidity

ETP/STP Area in Data Center

STP PLANT

PLANT

ETP PLANT

GT-2500-WP

H₂S /NH₃ Sensor

GT-2511-WP

CH₄ Sensor

Features :

- Provides a fast reliable output for detection a smallest leak of Toxic and Combustible Gases emitted in Battery Rooms.

- Enclosure: Protection Class: IP65

- Hot Swappable Smart sensor with Calibration memory Inside Sensor.

- Sensor can be replace on site immediately if require.

- Common inventory for all different type Gas Detector so reduces spares cost.

- for Projects Smart sensor can be supplied at the time of execution of Project so to prevent life of sensor during idle period.

- Highly resistant to poisoning and etching due to special coating

- Automatic Calibration due alert for easy maintenance

- Non-Intrusive programming for using Magnetic Wand.

- Password protected programming with changing facility.

- Reverse Polarity Protection

- Standard 4-20mA signal output with configurable range.

- Standard 0-10V/0-5V/ 0-1V signal output with configurable range.

- Optional RS-485 Communication Port with MODBUS RTU PROTOCOL.

- 2 KV Isolated RS-485 Modbus Communication RTU

- Non-Intrusive programming for Flameproof Model using front push button.

- Password protected programming with Password Changing Facility.

- Alarm Acknowledgment Facility from front as well as rear terminal.

- 'Test Mode' provided to check the electronics as Alarm LEDs, Relays, Output current/voltage with or without sensor module.

- Optional Alarm Relay contacts on board with two configurable Alarm Levels & One Fail Safe Relay.

- Output compatible to any make Fire Alarm Panel.

⑨

Car Parking Area

GT-1033-WP

Features :

- Industrial Standard, 4-20mA output with Respect to Gas Concentration.
- Loop Test, Assures Proper Operation of the Transmitter without Calibration Gas
- Easy Programming with Password Protection.
- Fast Response, Easy to Read Display.
- Easy to Replace Sensor Module; On Field Plug-N-Play module.
- Reverse Polarity Protection.
- No Additional Power Required.
- Highly Reliable, Fast, Accurate for Specific Gas Detection.
- Excellent Long Term Stability.
- User Friendly, Simple to Operate & Easy to Install.
- Reduced Operating, Maintenance and Installation Cost, One Man Calibration.
- Sensor Open/ Over Range Indication.
- Inhibit mode for service purpose, current output settable as per the requirement.
- EMC compliance to IEC – 61000-4 standards.

Type of colours available for Alarm Indication

Alarm - 1	:	Blue Colour
Alarm - 2	:	Red Colour
Ambient condition	:	Green colour
Sensor open condition	:	Blue & White colour
Sensor over range	:	Blue & White colour

# LPG/PNG Gas Detection System for Commercial Kitchen

GLA-222-FLP

Features :

- Provides Fast & Reliable Response by using Semiconductor Technology for detecting leak of LPG / CNG / PNG/LNG / Natural Gas / Flammable Gas.
- Optimized for detection of smallest gas leak with integrated Buzzer and L.E.D. indication.
- Provides visual and audible signals when the gas concentration cross the Pre-set Alarm level .
- Helps to detect Gas and Excess Temperature indication.
- Easy installation, simple Plug-in design for home use, 230VAC powered.
- Optional Single Alarm Relay to operate shut off valve.

LPG/PNG Conventional Gas Leakage System with SMS/E-mail/Voice call/cloud facility for commercial Kitchen
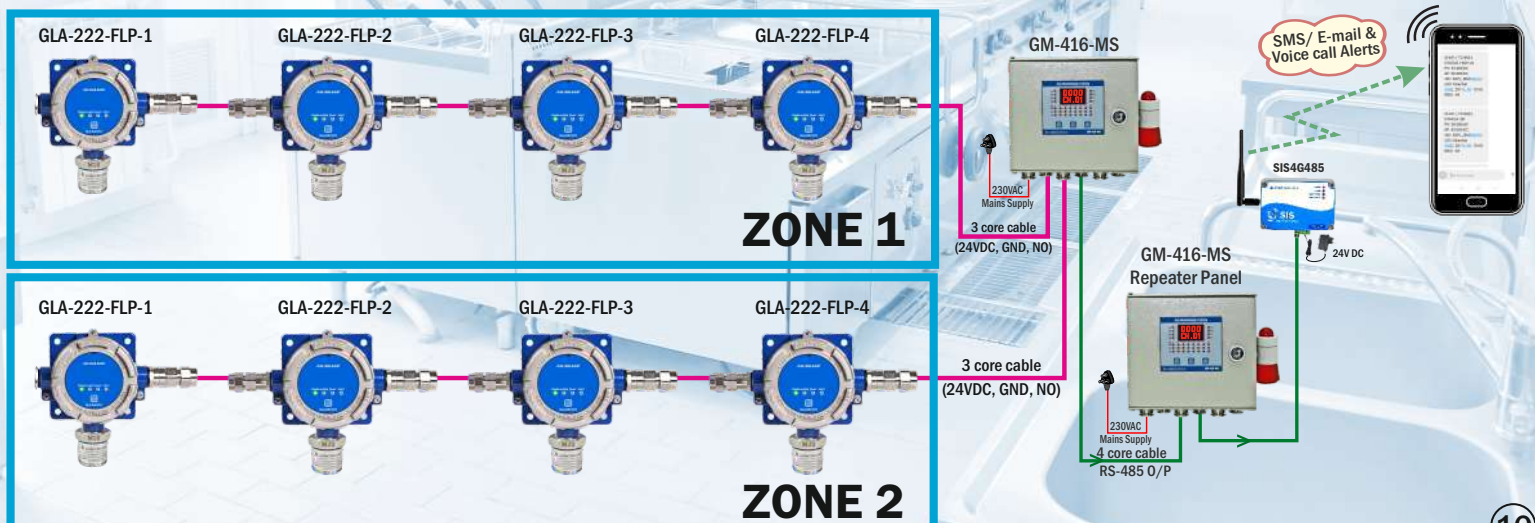
Connecting Things to Web

SIG4GTY-MS

SIS4G485-WP

Features :

- Supported 48-Nodes
- Dual 4G SIM slot for Redundancy, if one SIM network fails
- Two settable Alarm set-points for each channel (High/Low)
- Communication Failure detection
- 4 - DPDT Relays for control action
- Inbuilt Buzzer for Audio Alarm Indication with snooze
- Bi-colour L.E.D. indications for Alarms & Device status
- 230VAC Input (for inbuilt SMPS)
- RS-485 /Ethernet (optional) Output Port (for SCADA/PLC/PC)
- 128 x 64 Graphical L.C.D. Display
- Pendrive Interface for data logging
- SMS & E-mail alerts
- MQTT Protocol for cloud application.
- AEPL-IoT PC Software for configuration
- Ambeiiot cloud supported for data monitoring.
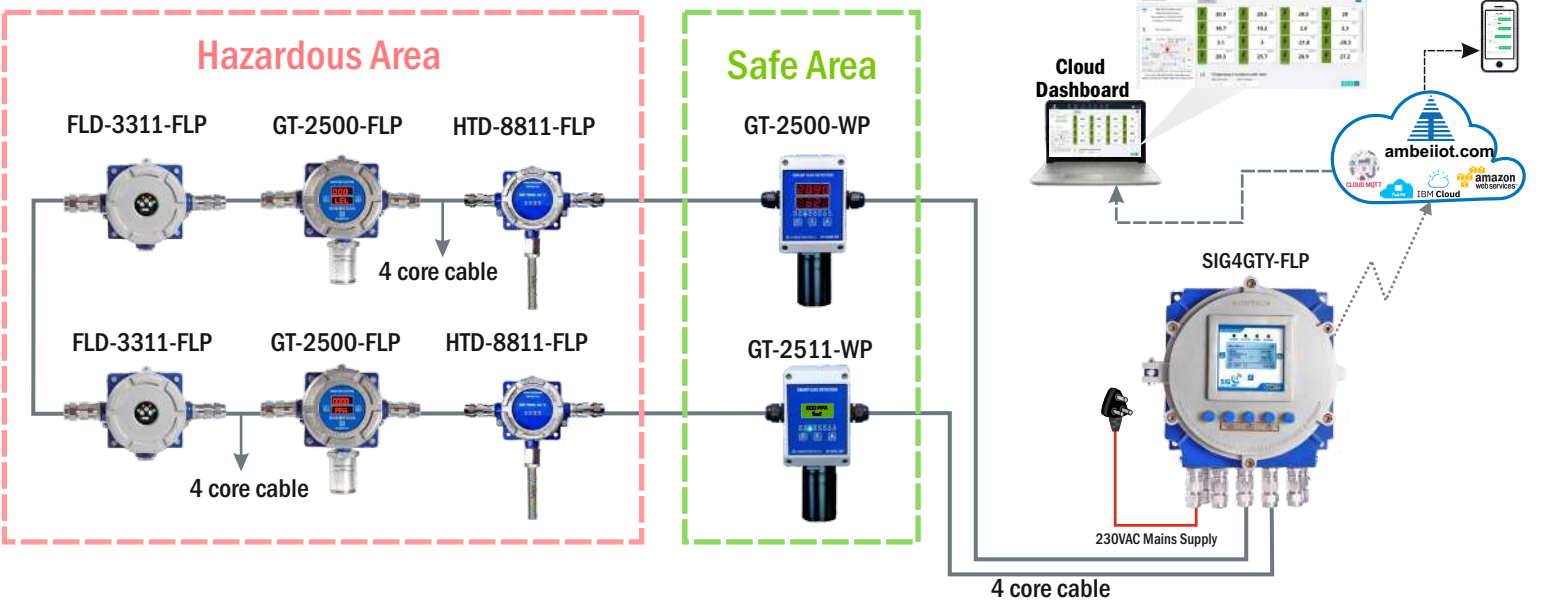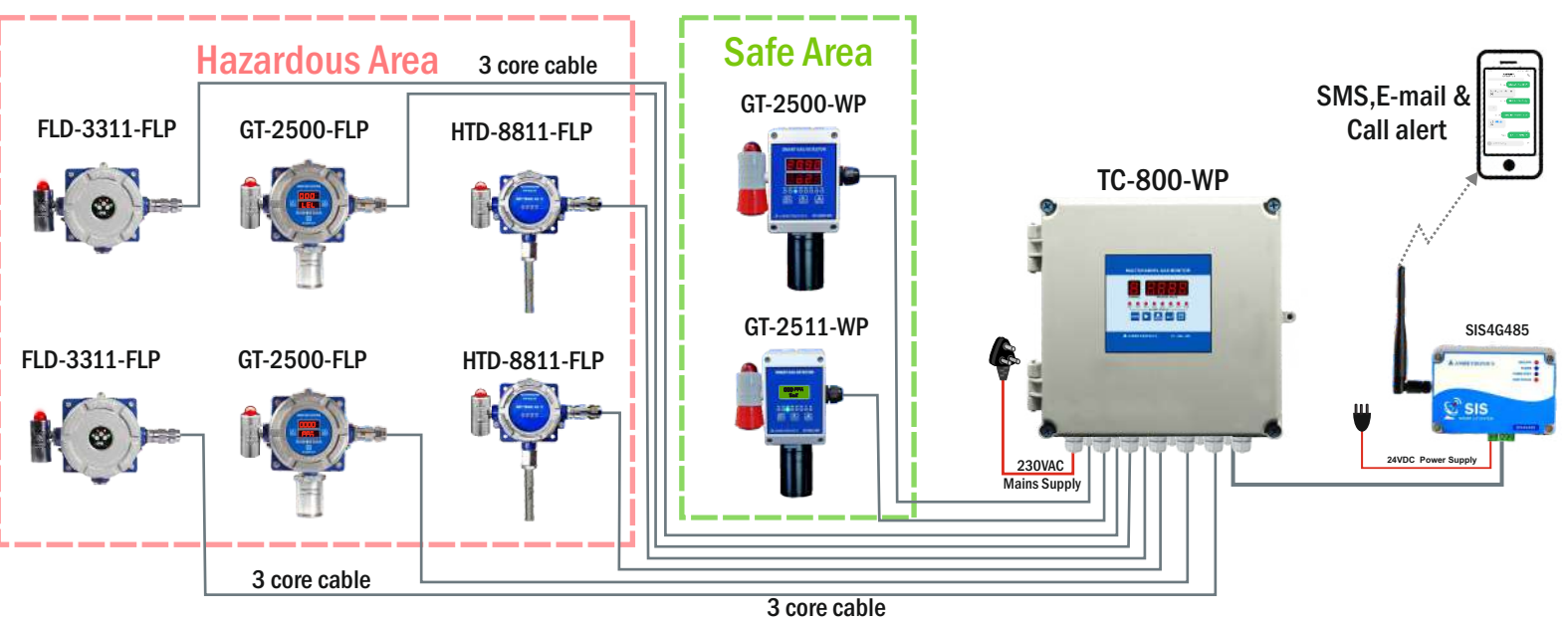- Smartlog Pro software supported for data monitoring

Features :

- GSM / GPRS Connectivity
- RS-485 MODBUS RTU
- VOICE CALL (10 Mobile No.)
- SMS (10 Mobile No.)
- E-mail (5 E-mail addresses)
- Scheduled E-mail Reports)
- Data Logging Records- 50000
- Event Logging Records - 15000
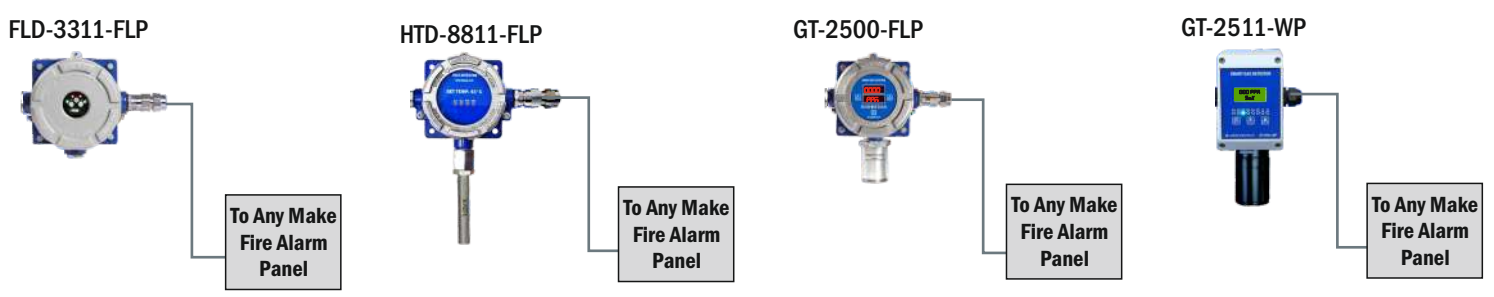- MQTT (JSON) Communication Protocol

Applications : Addressable System with optional Cloud Access & SMS/E-mail & Call Alert

Hazardous Area

FLD-3311-FLP   GT-2500-FLP   HTD-8811-FLP

4 core cable

FLD-3311-FLP   GT-2500-FLP   HTD-8811-FLP

4 core cable

Safe Area

GT-2500-WP

GT-2511-WP

SMS & E-mail alert

Cloud Dashboard

ambeiiot.com

CLOUD MQTT   Azure   IBM Cloud   amazon web services

SIG4GTY-FLP

230VAC Mains Supply

4 core cable

Conventional System with SMS / E-mail Alert

Hazardous Area

3 core cable

FLD-3311-FLP   GT-2500-FLP   HTD-8811-FLP

FLD-3311-FLP   GT-2500-FLP   HTD-8811-FLP

3 core cable

3 core cable

Safe Area

GT-2500-WP

GT-2511-WP

TC-800-WP

230VAC Mains Supply

SMS,E-mail & Call alert

SIS4G485

24VDC Power Supply

3rd Party Applications

FLD-3311-FLP

To Any Make Fire Alarm Panel

HTD-8811-FLP

To Any Make Fire Alarm Panel

GT-2500-FLP

To Any Make Fire Alarm Panel

GT-2511-WP

To Any Make Fire Alarm Panel

Manufactured by :

CIMFR   ISI   PESO   CE   UL   IECEx   MSME   NSIC   GeM Government e-Marketplace   MAKE IN INDIA

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