

GAS DETECTION CONTROL - RK - 220 PANEL

FOR OXYGEN / TOXIC / COMBUSTIBLE GASES

Introduction

The Gas Detection Systems are used throughout the world to protect areas in Petrochemical complexes, Offshore platforms, Water Treatment Plants, Pumping Stations, Paint Factories, Chemical Works, Storage Depots and many other places where there is an obvious risk of hazardous occurring because of leaks of gases or vapours.

Sulphur Dioxide, Chlorine, Hydrogen Cyanide, Nitrogen Oxide and Ammonia are also hazardous gases and other process parameter, which RK-220 can be made to detect. The RK-220 can also be used in place of process controller that accepts 4-20mA from any of process transmitters such as flow, temperature, pressure, humidity or any other engineering parameter.

The RK-220 process controller monitors 4 to 20 milliampere (mA) DC signal generated by a Toxic or Combustible Gas Sensor / Transmitter Assembly. The Controller response includes actuation of relay output for direct control of field response devices, a full array of faceplate indicators, as well as an optional 4 to 20 mA output for transmitting system information to other monitoring device like recorder, PLC etc.

The main feature of the RK-220 is it indicates in digital of actual gas concentration and not just a blind detector of presence of gas.

Application Sectors

- Refineries
- Sewage Plants
- Fertilizers Plants
- Stack Monitoring
- Gas Cylinder Bank
- Pulp & Paper Plants
- Oil & Gas Industries
- Ambient Monitoring
- Gas Pipeline Project
- Gas Metering Station
- Heat Treatment Plants
- Chemical Storage Area
- Burner / Furnace Areas
- Bullet Yard / Storage Yard
- Coal Mine and Confined Area
- Chemical & Petrochemical Plants
- Chemical Processing Plant
- Acid alkalizes & Dyes Mfg. Plants
- Offshore Drilling & Processing Platforms
- Automotive Industries / Paint Shops

Features

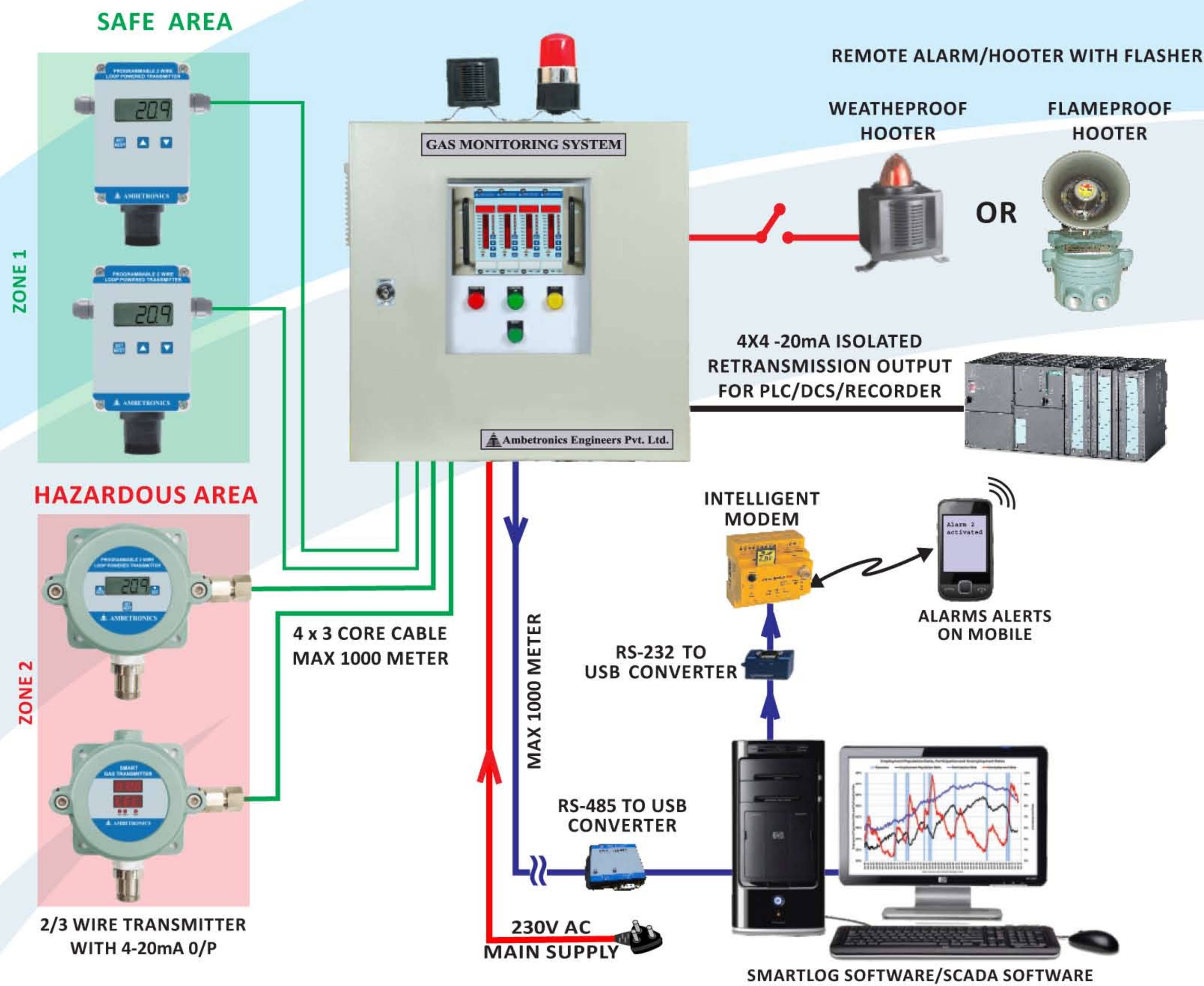
- 3U 19" Rack standard size expandable upto 16 Nos. of module cards
- Module cards accept 4-20mA from 3 wire toxic/combustible/Oxygen transmitter
- Multi location monitoring at single place at control room
- Interchangeability of module cards by user
- Modular Design Card with Individual Display with Bar Graph Indication for each sensor
- Leds indications for the alarm relays
- Range, Resolution, Alarm set point, Alarm control action, Hysteresis programmable by users
- 3 Independent alarm set point programmable with latching / non-latching, energized / de-energized, relays
- Provided open collector O/P instead of the Relay Contacts
- 1 No. Fault relay for failsafe operation
- Under / Over / Open indication for the 4-20mA I/P current & its connection
- In inhibit mode at a time of maintenance, alarms relays become inactive
- Onsite automatic software calibration by single person (no trim pots)
- 4-20mA isolated / non-isolated retransmission output for PLC, DCS any recorder
- Optional Toxic / Oxygen / Combustible gas transmitter etc. are available
- Self Test mode for Internal Circuit & relays for activating Audio-Visual Alarm Check
- Easily Expandable & Easy for Maintenance

Approval & Compliance

- Compliance with IEC-60945 Standard for Marine application

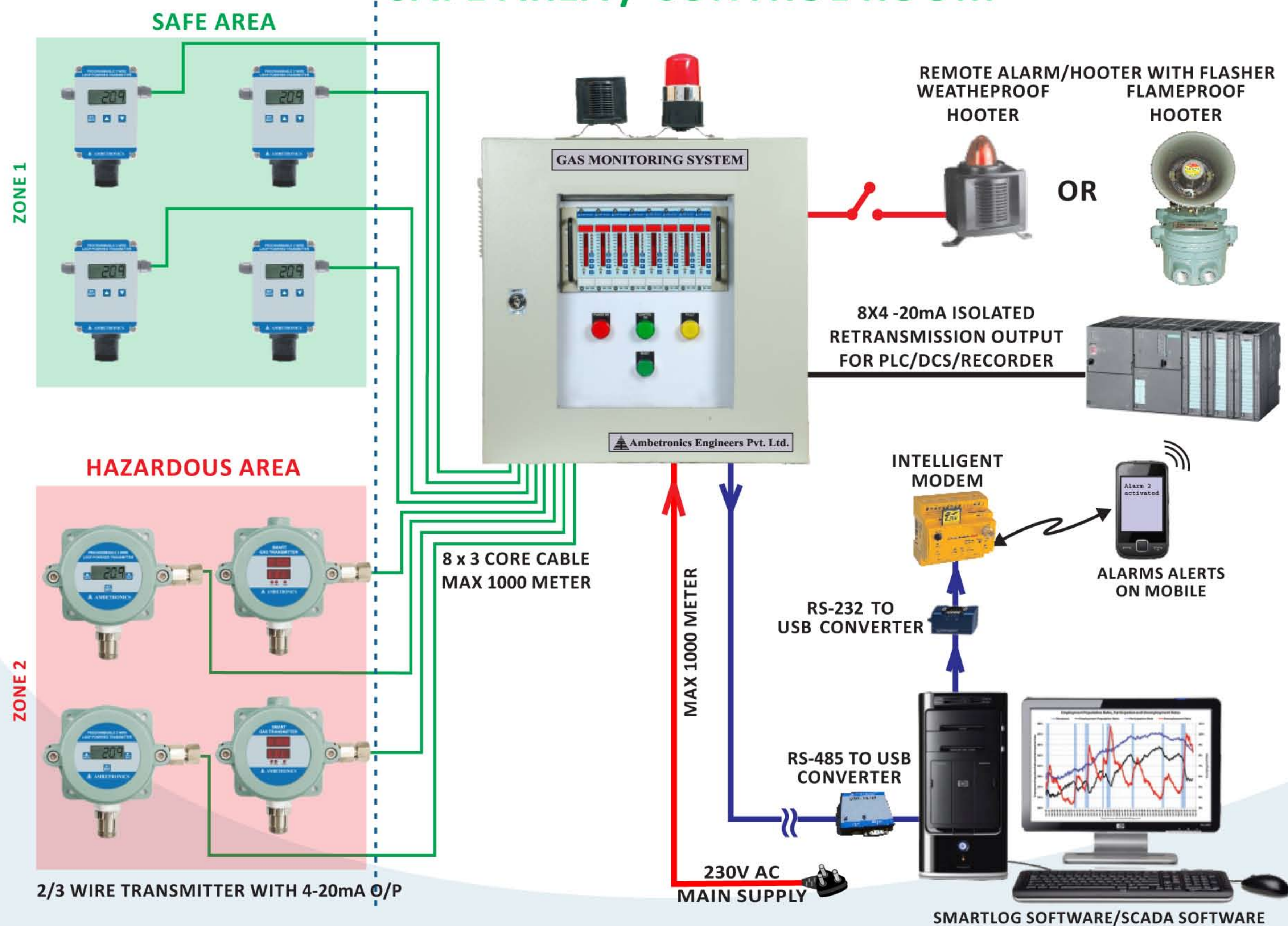
MULTICHANNEL GAS MONITOR RACK TYPE - 4CH.

SAFE AREA / CONTROL ROOM

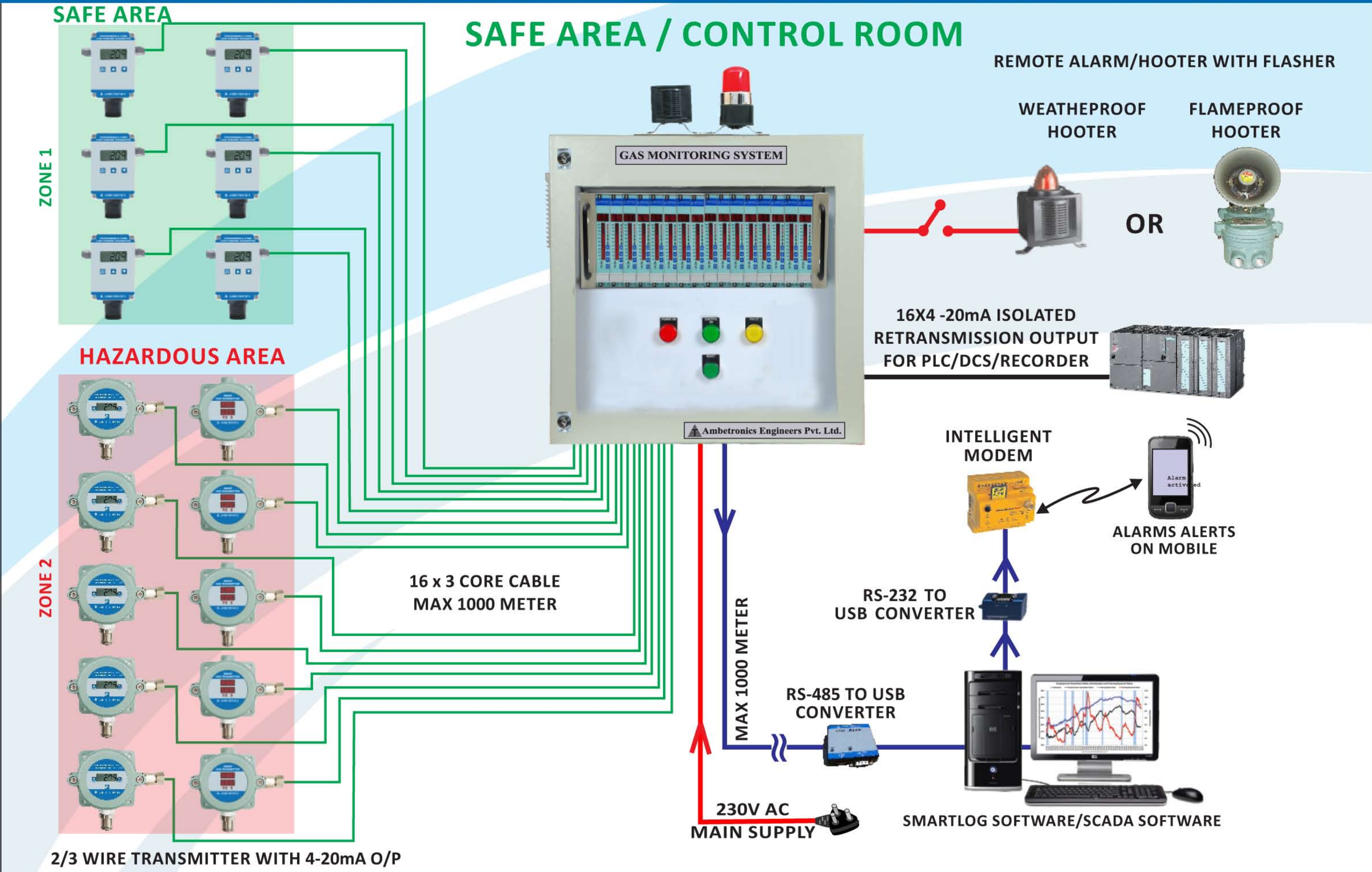


MULTICHANNEL GAS MONITOR RACK TYPE - 8CH.

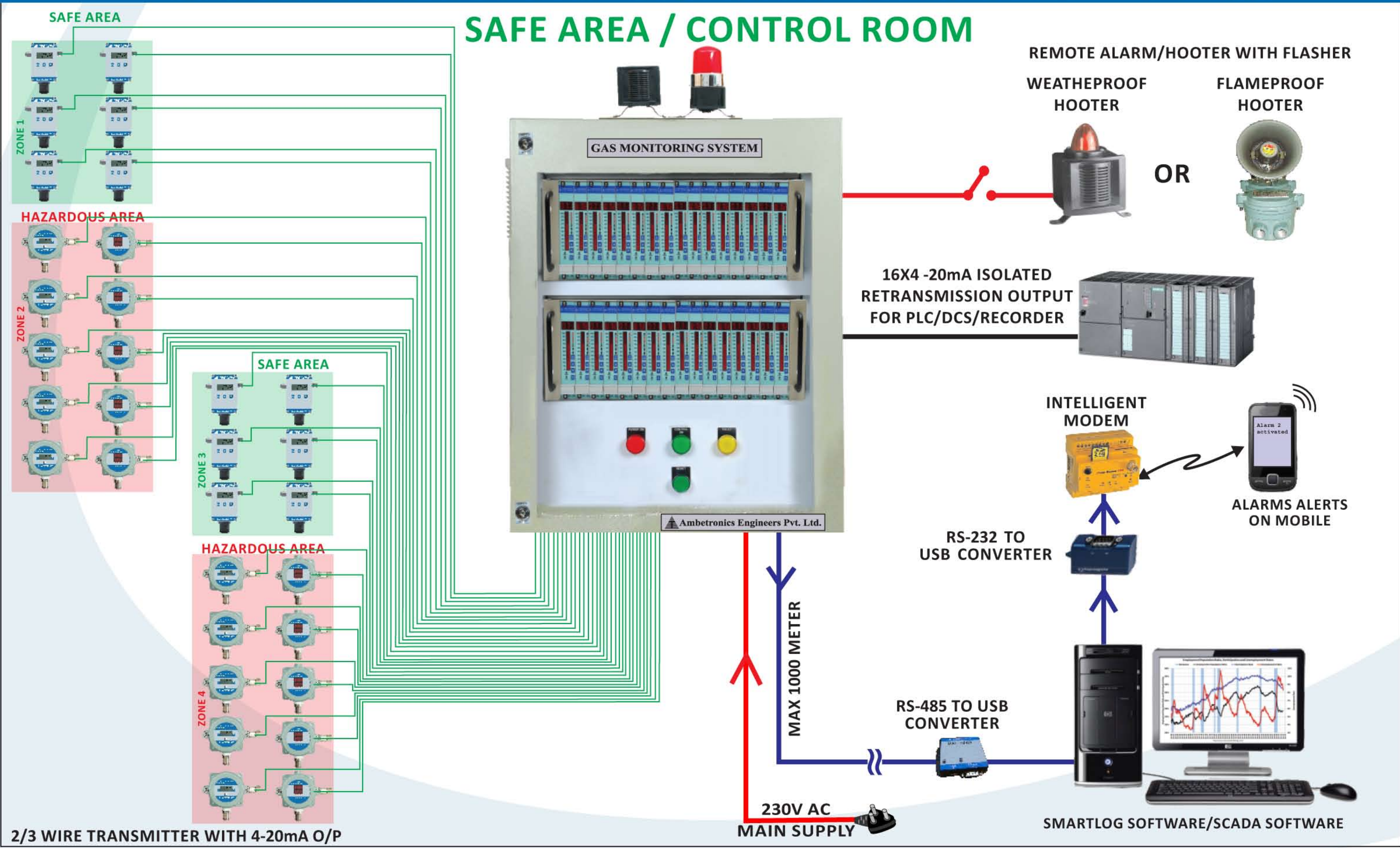
SAFE AREA / CONTROL ROOM



MULTICHANNEL GAS MONITOR RACK TYPE - 16 CH.

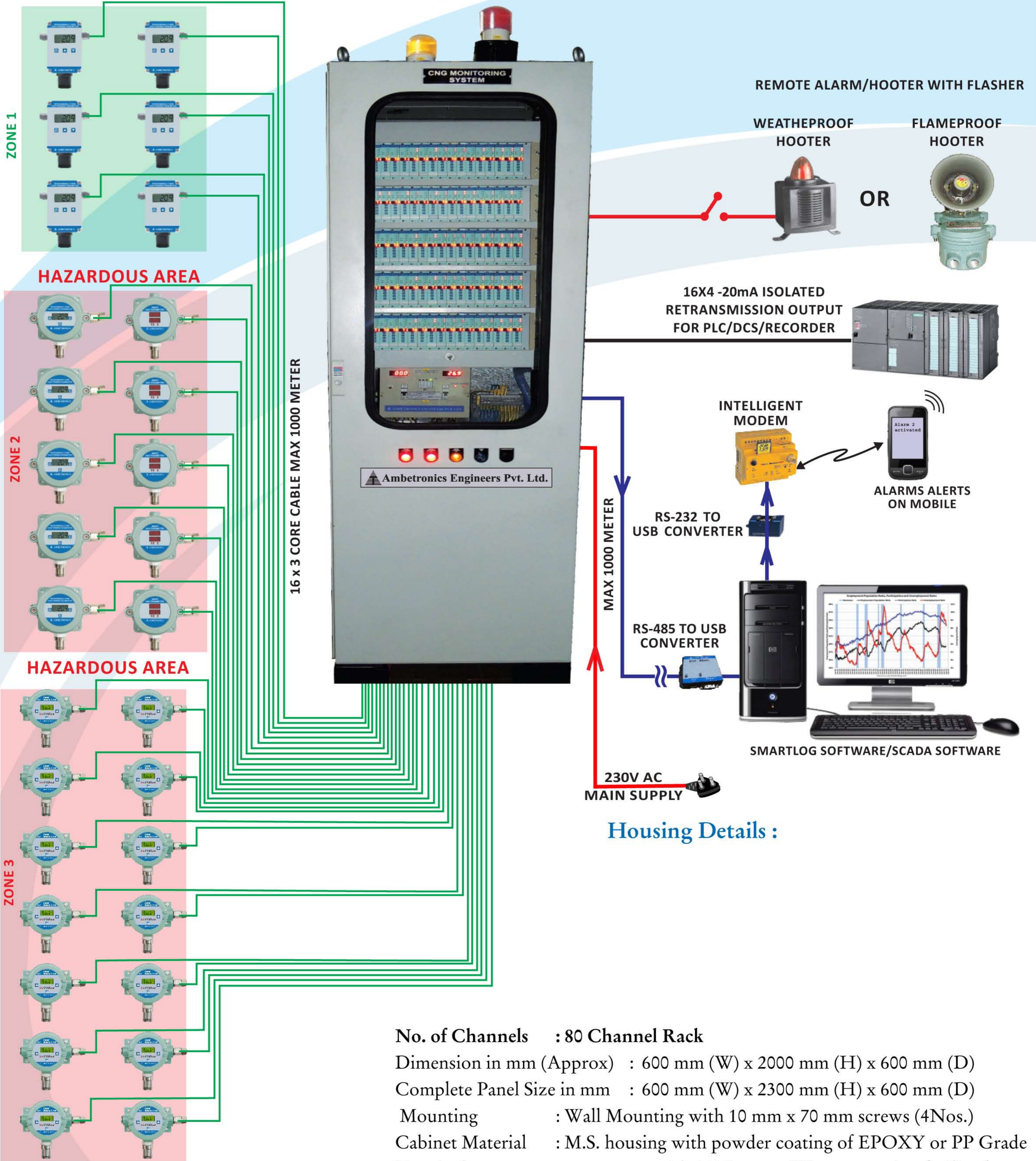


MULTICHANNEL GAS MONITOR RACK TYPE - 32 CH.



SAFE AREA

SAFE AREA / CONTROL ROOM



2/3 WIRE TRANSMITTER WITH 4-20mA O/P

- No. of Channels : 80 Channel Rack
- Dimension in mm (Approx) : 600 mm (W) x 2000 mm (H) x 600 mm (D)
- Complete Panel Size in mm : 600 mm (W) x 2300 mm (H) x 600 mm (D)
- Mounting : Wall Mounting with 10 mm x 70 mm screws (4Nos.)
- Cabinet Material : M.S. housing with powder coating of EPOXY or PP Grade
- Terminal : connectors with 1.5 Sq. mm. Wire connection facility for each channel inside the panel

Housing Details :

Manufactured by :

AMBETRONICS ENGINEERS PVT. LTD.



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