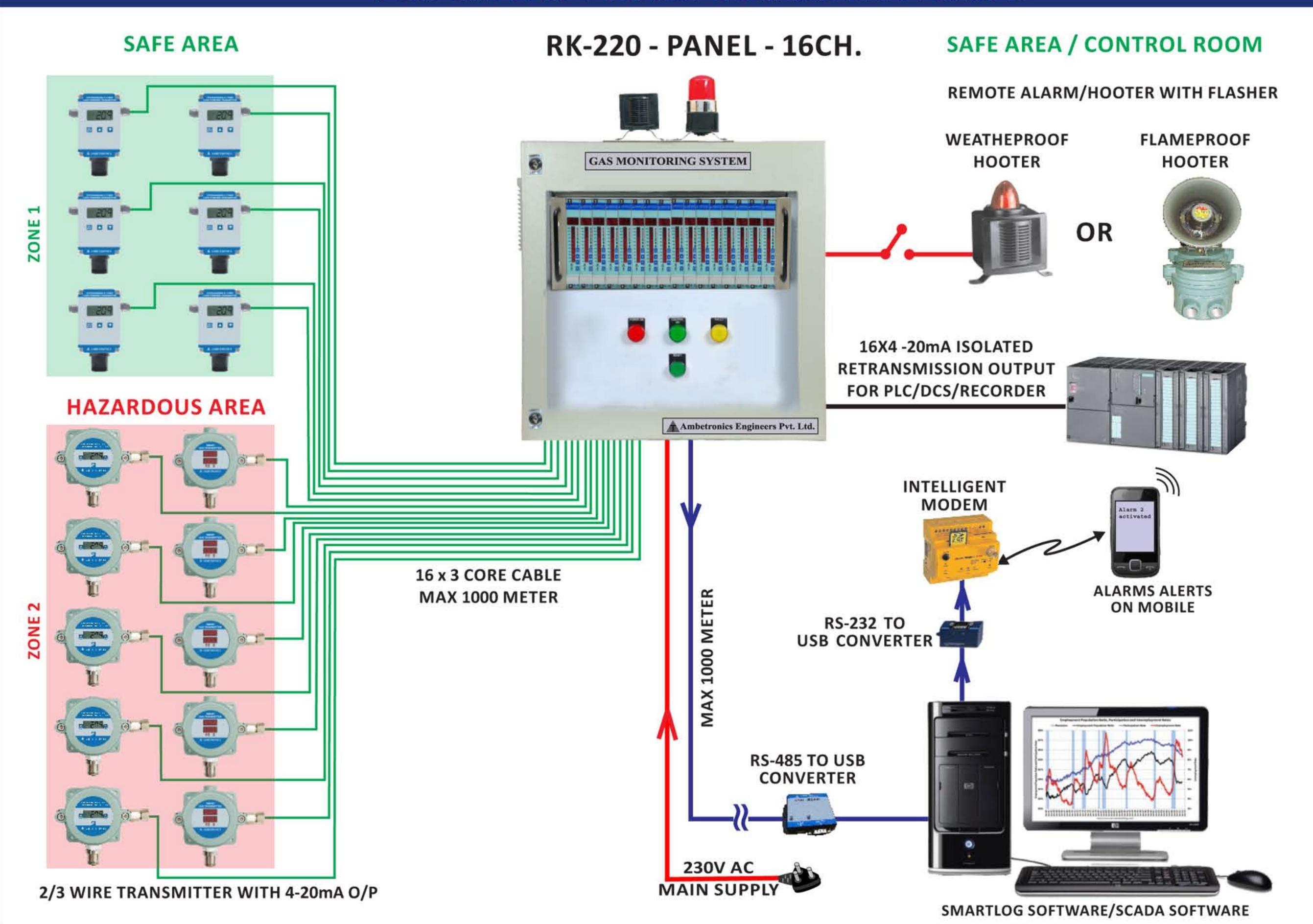


MULTICHANNEL GAS MONITOR RACK TYPE - 16CH.

FOR OXYGEN / TOXIC / COMBUSTIBLE GASES



Features

- Fail Safe Operational Design
- Continues Gas Monitoring and Alarm System
- Modular Design Card with Individual Display with Bar Graph Indication for each Transmitter
- Easily Expandable & Easy for Maintenance / Calibration
- Individual Alarm Relay / Open Collector outputs for each Gas Transmitter
- Gas Range, Resolution, control Action, Latch Facility programmable by users / multilayer password protected
- Inhibit / Service Mode, at the time of maintenance Alarm Relay become inactive
- Easy Automatic Software Calibration No Trim Pots
- Optional isolated linear 4 20 mA O/P with Respect to gas concentration programmable by user
- Optional isolated RS-485 with MODBUS RTU Protocol for DCS/PLC

Approval & Compliance

• Compliance with IEC-60945 Standard for Marine application



- 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

TECHNICAL SPECIFICATIONS

General

: 16 x 4 to 20mA output from Oxygen / Toxic / Input

Combustible Gas Transmitter.

: 0 to 999 in unit PPM or % LEL or %V/V Range

Programmable by user.

: 3 Digits of 8 mm (H) Red L.E.D. display for Gas Display

Concentration

20 segment Red color Bar Graph Display for Gas concentration 100% Fullscale, 5% Per step L.E.D.

Resolution : 0.01, 0.1, 1 programmable by user

LED Indication : 8 No. AL1, AL2, AL3, Health Check / Failsafe Indication

PRG, CAL

Optional TX / RX for Transmitting Receiving signal

: 3 Independent Alarm set point programmable by user AL1,

AL2, AL3

No. of Input cards : Max. 16 module cards

Control Action : LO/HI, HI/LO, LO/Very LO, HI-very HI, Programmable by

user AL1, AL2, AL3.

: Setting by 4 keys on front panel 'Set/Next,' 'Up', 'Down', Setting

'Test / Ack'

Performance

Measurement Accuracy: $\pm 0.25\%$ of the full-scale value.

Electrical

Set Point

: 18 to 36 VDC, 24VDC normal for module card OR Power Supply

230V AC $\pm 10\%$ for wall mounted panel

1.5 sq. mm 3 core OR 2 core, Flexible OR Armoured Cable

shielded cable from Gas Transmitter to Monitor

Error Monitoring

: If 4-20mA from Transmitter O/P Break / Open is above 21mA display i) Display

shows 'aPa',

If 4-20mA Transmitter O/P is below 3mA Under range display shows

'Und' & For Over range display shows 'our'

Current O/P: Up scale current > 21mA, Down scale current < 1mA, selectable

Output Signal

Relay Output : 4 No. 1 NO/C/NC relay contact rated 230VAC / 5A for

AL1, AL2, AL3 and Fail safe Relay for each channel.

Programmable latch/Non-Latch facility for AL1, AL2 & AL3 Relay Latching : a) Isolated RS-485 Serial port with MODBUS RTU optional

Protocol output for PLC/DCS

b) 16x4-20mAIsolated retransmission output for PLC, DCS, any recorder

c) 4 No, Open Collector O/P rated 100mA at 32VDC instead of 4 No Relay

Accessories (Optional)

2/3 Core Cables

Hooter cum Flasher

Intelligent Modem

• CE certified 24 VDC Power supply. • Flame Proof or Non Flame Proof Industrial Hooter / Flasher

Gas Calibration Kit (0.5,1, 3,10)Liter.
RS-485 to USB OR RS-232 convertor

 PC Based SCADA / SMARTLOGSoftware Annunciator Panel 4 Channel / 8 Channel

Housing Details:

No. of Channels : 16 Channel Rack **Complete Gas Detection Panel**

Dimension in mm (Approx): 484 (W)x134 (H)x200 (D) 600(W) x 816 (H) x 461(D)

Cutout size in mm (Approx): 600 (W) x 600(H) x 550 (D) : 7.5 Kg Weight (Approx)

15 Kg : Wall Mounting with 10mm x 70mm screws (4Nos.) Mounting 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

Environmental

Operating Temperature : -15 to +55°C

Humidity : Less than 95% Non-Condensing.

EMI-EMC compatibility

LAYOUT DESCRIPTION

Front view 600 mm 816 mm 900 000

Side view

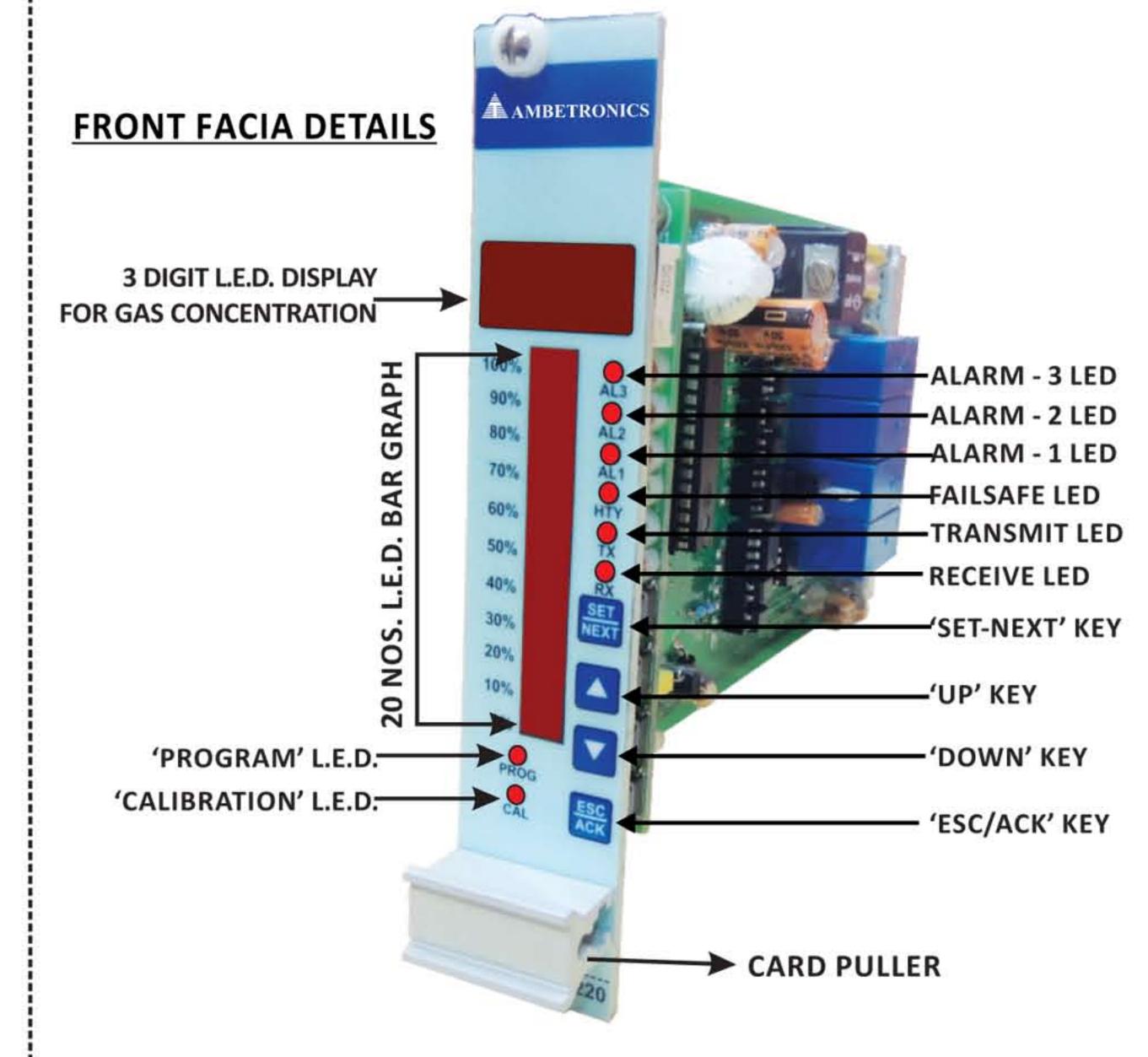
550 mm

Back view

Trimetric view

888888

461 mm 000



Manufactured by:















Dealers:



AMBETRONICS ENGINEERS PVT. LTD.

