SF2004 - "Man Counting System" & Application

SYSTEM SCHEMATIC :
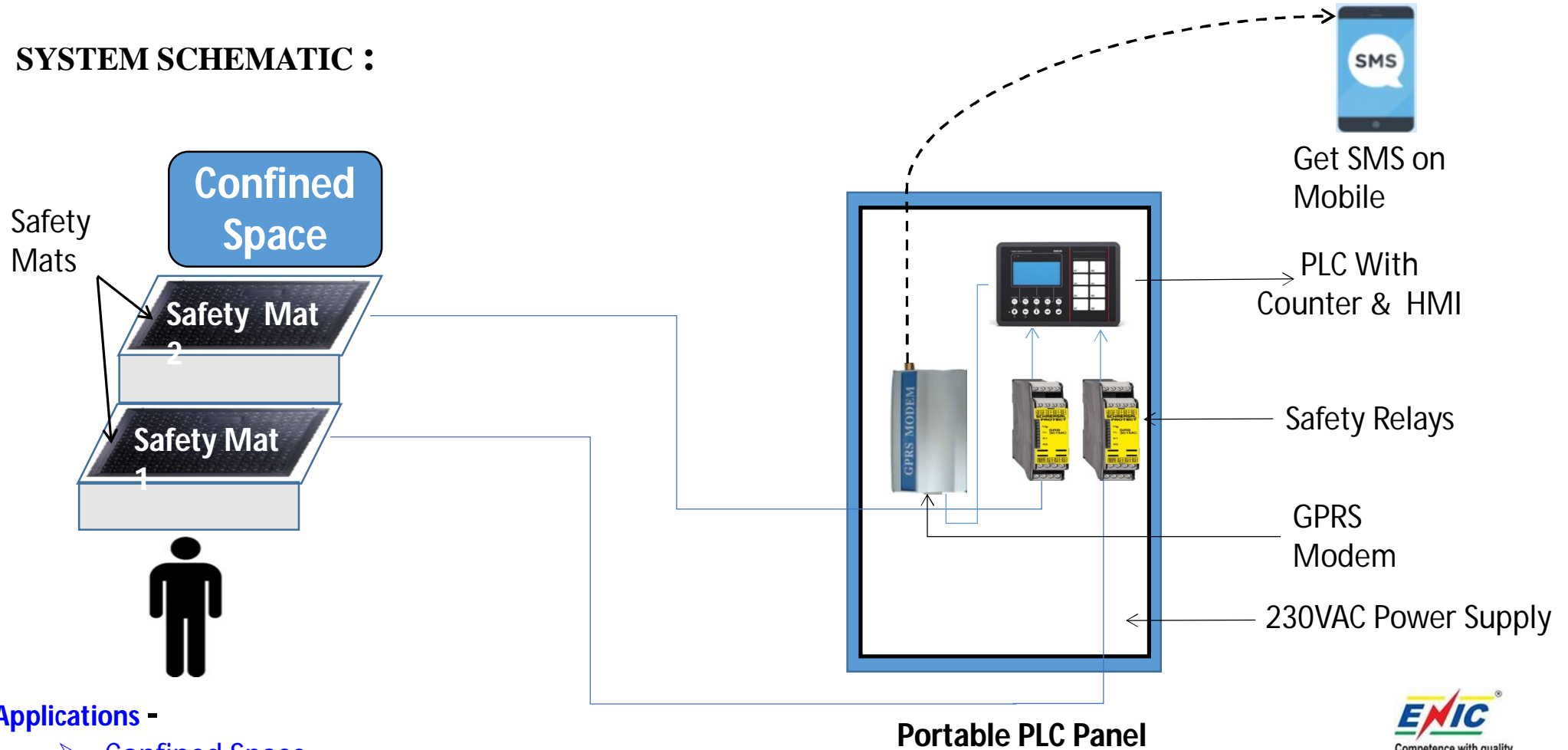
Applications -
- ➤ Confined Space
- ➤ Warehouse
- ➤ Scaff Holding

Safety Mats

Confined Space

Safety Mat 2

Safety Mat 1

Get SMS on Mobile

PLC With Counter & HMI

Safety Relays

GPRS Modem

230VAC Power Supply

Portable PLC Panel

ENIC
Competence with quality

SYSTEM DESCRIPTION :

- As per Schematic, we are using this scheme as Man Counting application with Safety Mat, PLC with HMI, GPRS Modem & Safety Relay.

- In this scheme, we are using two Safety Mats, Each Safety Mat will be connected to Safety Relay which will monitor the operation of Safety Mat.

- The Output of these Relays will be further connected to PLC with inbuilt HMI.

- This PLC will have counter also, which will count the person standing or passing through mat.

- When any one step on first Safety Mat, it will count in increasing order and when step on second Safety Mat first, it will count in decreasing form.

- Total no of persons who have passed through both safety Mat will be calculated as difference of both counters & this count will also displayed on HMI screen.

Continue...

- We can specify a maximum number in PLC, when the count is more then that specify number, PLC will generate an alarm output.

- We have consider a Flasher Siren which will connect with that PLC output.

- We have consider a over load lamp over panel, it will also glow when that O/P is high.

- Apart from this we have also considered Test Push Button, Reset PB & Acknowledge PB.

- In this solution, SMS facility is also there, when the number of persons is more then the specify in PLC, a predefined SMS will be sent to pre specify numbers that count is high.

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