

Electronic Andon System

1. Parts Of The Andon

Power Cable (230Vac)

- ❖ This is used to power the Andon unit
- ❖ Voltage : 230Vac Supply



Key Pad Connector

- ❖ This port is used to connect Key Pad to the Andon. The cable is 1:1 cat5 cable supplied by the manufacture.

Kpd Connector



And Connector

- ❖ This port is used to connect RS485 Network. The cable is 1:1 cat5 cable supplied by the manufacture.
- ❖ If a Andon connects directly to Computer, a Crossed Cable should be used.

And Connector



Speaker

- ❖ Speaker is used to get a sound alert
- ❖ Has 6 different tones for each Andon

Speaker



Power On / Off Switch

- ❖ This is the Power On Off Switch of the Andon
- ❖ All Data and timers will be reset to "0" at power on.



Alarm Reset Switch

- ❖ Sound Alarm can be reset pressing this button
- ❖ For another event (Andon) sound will be automatically-activated.



Andon Lights

- ❖ 6 Different color LED lamps.
- ❖ Currently active Andons are indicated



7 Segment Display Panel

- ❖ 5 number of 7-segments are in the display panel.
- ❖ The times are shown in “H:MM:SS” format.
- ❖ At startup This will be “0:00:00”
- ❖ If no active andons are going on (All LED lamps are off) This display indicate Addition of 6 Cumulative timers.



ICD3 Connector

- ❖ This is used for Andon software modifications



2. Parts of the Key Pad

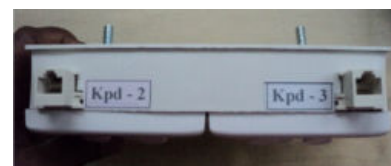
Six Andon Switches

- ❖ The key pad is used to start and stop Andon event.
- ❖ 6 switches can be used for different faults Regarding to different departments. (Cutting, RM, MC, etc...)
- ❖ Pressing any switch The LED lamp in the bottom will Light showing the place problem occure.



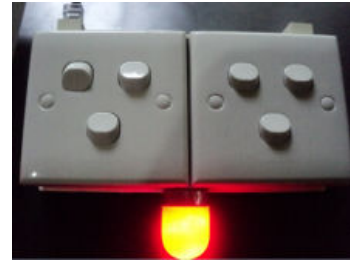
Key Pad Connecters

- ❖ Both “KPD-2” and “KPD-3” slots are same.
- ❖ Any number of keypads can be connect parallel using this slots.The cables use for this is also 1:1, Cat5 cable supplied by the manufacture.



Key Pad Light

- ❖ After turned on any switch the LED lamp will light
- ❖ immediately showing where the problem occur.
- ❖ The Lamp will automatically off after all switches are off.



3. Parts of the RS485 Controller Unit

Power Cable (230Vac)

- ❖ Supply 230Vac power.



Power LED

- ❖ The power LED will light after receiving necessary power to the unit



RS485 Connector

- ❖ This port is used to connect RS485 unit to RS485 Cable Network.
- ❖ The cable used for this task should be Crossed cable supplied by the manufacture.



PC Connector

- ❖ This is used to connect RS485 unit to PC.
- ❖ A standard 1:1 serial cable should be used.



3. Cables Used for Andon System

Andon Cable

- ❖ This is used to connect Andon unit and PC.
- ❖ The cable is crossed cable.



Key pad Cable

- ❖ This is used to connect Andon unit and Keypad.
- ❖ The cable is 1:1 cat5.



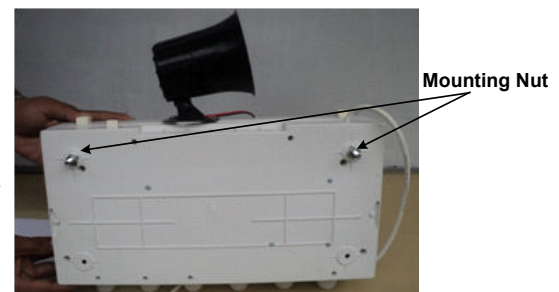
Serial Cable

- ❖ This is used to connect RS485 unit to PC.
- ❖ A standard 1:1 serial cable should be used.



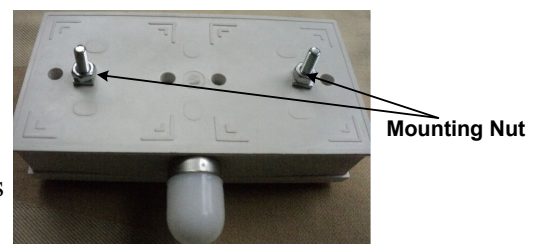
4. Andon Mounting System

- ❖ two mounting bolts shown in the figure can be used to mount the Andon unit.
- ❖ It is suitable to design your own bracket for this task as per requirement or according to factory standards.
- ❖ Additional Two nuts are supplied.



5. Key pad mounting nut

- ❖ two mounting bolts shown in the figure can be used to mount the Keypad unit.
- ❖ It is suitable to design your own bracket for this task as per requirement or according to factory standards.
- ❖ Additional Two nuts are supplied.



6. Wiring the Andon System

- ❖ Connect two keypads as shown in the picture.
- ❖ Following figures shows you necessary guidance for that.
- ❖ It is important to connect correct cables to each slots.
- ❖ All slots and cables have proper numbering system



A

Kpd Connector



B



C



D



E



F

- ❖ Connect RS485 Unit and Andon as shown in the picture.
- ❖ Make sure to use correct cable.

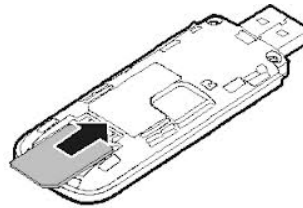
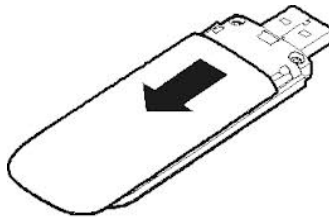




- ❖ Connect RS485 Unit and PC as shown in the picture.
- ❖ Use supplied Serial cable.
- ❖ Connect serial cable to COM1 port of the computer.



- ❖ Insert SIM card to Dongle



- ❖ Connect Dongle to PC



7. Getting Started Andon System

- ❖ Turned on Andon Unit.
- ❖ It will display “8:88:88” and Next “0:00:00”



- ❖ Connect RS485 Unit and PC as shown in the picture.
- ❖ Use supplied Serial cable.

Power on the Andon unit and RS485 Unit

1) Self Test mode.

1. Press the Alarm Reset Switch



2. First display “ SLFT “ on the display panel, Secondary department lights are on off one by one then Alarms are on off one by one & Finally display the normal mode in 0:00:00 on the display panel .



- 2) First switch on the key pad, then turn on the key pad light & time is start to run display penal, indicate department light & on the Alarm.



- 3) Technician is solved the problems after then off the Key Pad switch & light. Time is stop the running. Department light & Alarm is off. (Technician can off the Alarm, press the Alarm Reset button before solving problem)



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- Power the RS 485 Network Controller unit.



- 4) Display current time & summery report in the computer or LCD Display.

