

**TECHNICAL DATA SHEET – Emergency Call Box Systems
(ECB)**



This is a communication medium to be installed on the Highway and to be used by the road users to make alarm call to the CCR in case of accidents & other problems on the Highway.



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INTRODUCTION

RAAR Technologies is a complete asset lifecycle management company. Whether it is the supply, the installation or it is the IT/ITS Maintenance, we are there for you at every phase of the networking process. The RAAR Technologies team is available throughout the life of your data centre equipment and is there to assist you to appropriately dispose it off at the end. Over the years, RAAR Technologies has been establishing itself as one of the leading manufacturers for Traffic Management products and Systems.

RAAR Technologies has designed and developed Emergency Call Box (ECB) in accordance with National (IRC guidelines) & International standards. RAAR Technologies ECB is considered a prominent equipment to be installed at highway and roads for communicating message to Motorists like accidents & other problems on the Highway etc. ECB shall be installed every 2km on either side of the road with one unit directly across the road from the other i.e. two call boxes every 2km. It shall be placed along the left side of the carriage-way for each direction of travel on the verge adjacent to the hard shoulders. At each location one ECB shall be master and the other slave. The master ECB shall be equipped with fibre optic interface, solar panel, battery back-up and voice communication mechanism and shall also comply with all the requirements specified in this section for ECBS. The slave ECB shall be equipped at least with – activation button, vandal sensing mechanism, call progress indication LED, microphone, speakers – in a weather proof housing.

CE Certification: CE/21N3192

ISO 9001:2015: Certificate Number: 305021081303Q

IP Certificate: IP/21N1551



Emergency Call Box (ECB):

TECHNICAL SPECIFICATION

Display Module

Technologies	: GSM/VOIP
Color	: Yellow/orange Color
Viewing distance	: >60mtrs
IP Rating	: IP65
Operating Voltage	: 12-24 volt DC
Temperature Range	: -5° C to 60° C

- This Device works on SIP protocol which makes the voice audible even in noisy environments
- It can automatically transfer a call to a pre-configured telephone number if the other pre-fed numbers are not available/reachable or, simply busy.
- Easy GUI interface for better user understandability and for easy operation.
- LED indication for ECB status, call Ringing and call waiting.
- Standard & Advanced vandalism monitoring/protection measures using Door-Switch & Accelerometers for abnormal vibration detection.
- System provides the facility to record calls at a Central Control Room. The Software allows multiple features such as call hold; call Logs and battery status of the field unit.
- Microphone has noise cancellation type.



ELECTRICAL

Input Voltage : 24/12V DC

COMMUNICATION

Communication : IP Network, Ethernet, GSM (any one)

Full Duplex Communication

ENCLOSURE

Size : 600mm (L) x 420mm (H) x 70mm (D)

Enclosure material : Mild Steel

Surface Finishing coating : Yellow / Orange color matt finish powder coating

Door : Front Access Door

Weight : 25 kg including Electronics (approximately)

Wind load : 180 Kmph

Environmental Protection : Front IP 65 & Rear IP 54

Power Backup : Standard up to 3 days

Speaker Amplifier : 10w Class B

Solar Panel : 50-125 Watts

ENVIRONMENT

- Operating Temperature : -5° C to 60° C
- Humidity : 95%Rh

COMMUNICATION



Communication means (Any one)

- Ethernet – IP
- Fibre Optic / GSM
- Protocol: SIP



ECB Pole Diagram :

