

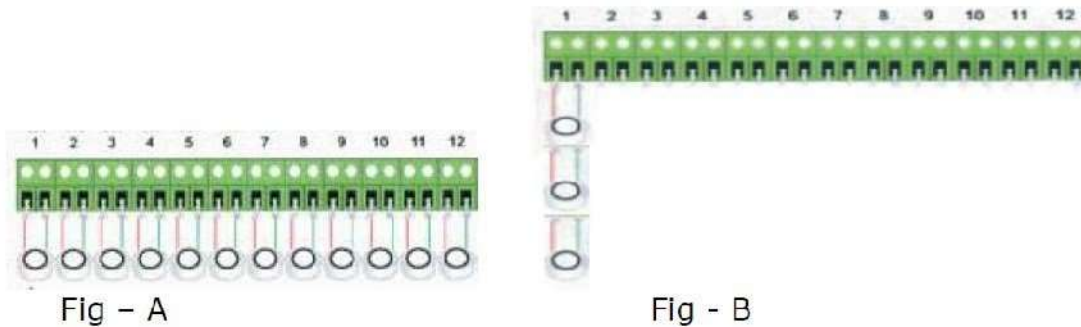
# Installation Manual

URRS -24T  
Ultrasonic Rodent Repellent System

Manufactured by

C Systems Pvt Ltd

## URRS control panel terminal block



Connection details between C Systems URRS control panel and transducers. Fig A & B shows the possible wiring methods between transducers and Panel.

The maximum distance from the panel to last transducer shall be 130m in case of looping is desired (Fig-B)

### Procedure for URRS installation at site

- Select a proper location near the electrical power socket of about 5 A AC. Fix the panel with the help of key holes provided at the back of the panel. No brackets and accessories are required for mounting.
- Proper earthing has to be done in the AC socket to avoid unnecessary leakage current. Also check of proper voltage at AC socket
- Each transducer covers an area of respective Sq ft as per models.
- The transducer consists of 2 parts, top cover and bottom lid. Use a  $\frac{3}{4}$  inch or 1 inch electrical junction box to mount the bottom lid. The holes in dummy plate in junction box exactly suit the holes in the bottom lid.
- After termination, press the top cover over the bottom lid. Press and lock type.
- Each transducer can be connected to the controller via separate cable or by connecting the transducers in parallel.
- Cables shall be either in GI or PVC conduit.

## **Ultrasonic Rodent Repellent System Control Panel:**

### **Features:**

1. 2 x 16 alpha numeric LCD with back light
2. Power ON LED indication.
3. 4 keys for menu navigation.
4. Power amplifier output for connecting ultrasonic transducers.
5. Audible tone for transducer testing
6. User selectable wave sweep time, & wave sweep delay setting. Default sweep time is 1 ms (1 to 10ms). Default Sweep delay 2 sec (1 to 10 sec).
7. A volt free contact is provided in the panel to monitor the power on healthy status of the panel.

### **Menu Setup**

1. Menu navigation can be achieved using Up, Down, Enter & Exit
2. To enter to the menu, Press Enter.
3. All the parameters are factory programmed and no manual settings are required.
4. To test the operation of transducer, press "Enter" from main screen & press up /down key till you see "TEST Transducers".
5. Press Enter key. An audible sound will be heard from all transducers. This ensures that all the transducers are working normally.
6. To change the site name, navigate the menu to select "SITE NAME" by pressing UP/DOWN key.
7. Press Enter to edit the Site Name. Press Enter to save & Exit.

### **Modbus Integration**

All the parameters sent in the panel can be monitored through MODBUS RTU protocol via any standard BMS. Refer Modubus document for details.

