URRS - 24T
Ultrasonic Rodent Repellent System

SYSTEMS ®

Innovative Embedology

No:122, 1st Floor, BHEL Nagar, Kundrathur Main Road, Madanathapuram, Chennai 600116. INDIA.
9952667680, 9941006680, 9841157607
E-mail: sales@csystemsindia.com;
ww.csystemsindia.com

C Systems Ultrasonic Rodent System Model-URRS-24T consists of one main console, 24 transducers & a cable bundle of 14/40 SWG 2 core cable. The main console is a microcontroller based system with embedded power electronic circuits to generate a pattern of ultrasound waves at 900mW power output per transducer. All parameters such as start frequency, end frequency, sweep time, wave pattern etc are pre programmed in the system. The sound waves are at high frequency (well about 20HKz to 50 KHz which is not hearable to human ear) The transducers emit intensive sound at high decibels (that are audible and painful to pests but inaudible and harmless to humans. The rodents usually leave the area being protected by ultrasound. They do not get killed.

SYSTEM OPERATION

On power up, the main console starts generating ultrasound with factory settings. Each transducer can cover an area of up to 500 Sq.ft at 3 m height ideally in closed area environment . All the transducers can be installed in the above false ceiling & below false flooring in server rooms, data centers, work space area etc. All the parameters can be monitored via MODBUS RS 485 for BMS integration. Also the panel has a potential free relay output to monitor the healthy status of panel.

HOW DOES THE URRS-24T WORKS

The powerful sound waves generated by the Transducers are within the hearing range of many pests and rodents and cause them pain and discomfort. Many times, the rodents will leave the area under ultrasound protected immediately and other times it will take as long as four to eight weeks before there is a significant reduction in infestation. The transducers are quiet. To test the operation of transducers, select "Test Transducer" in the menu.

CABLES
Two core (14/60) SWG cables of 90m / loop for connecting the transducers with the panel.

Panel Specifications

Configuration	: URRS - 24T Main Console
Operating frequency	: Above 20KHz (variable)
Integration with BMS	: MODBUS RTU via RS 485
Hardware Output	: Volt free relay output for Healthy / panel fault
Frequency Generation	: Voltage controlled oscillator (VCO)
Transducer Test	: "Test Transducer" Menu selection
Ventilation	: Mini Exhaust Fan
Power O/P Transducer	: 800mW
Power Consumption	: 15W approx
Power Supply	: 230V AC / 50 Hz
Dimensions in mm	: 260 x 235 x 100
Weight	: 3 Kg
Mounting	: with Mounting brackets
Certifications	: CE
	(EN IEC 61010-1:2010 + A1:2019)
	(EN ISO 12100:2010) Applicable Standards

MODBUS parameters

Start Frequency
End Frequency
Current Frequency
Sweep Time
Sweep Delay
Ultrasonic Mode