



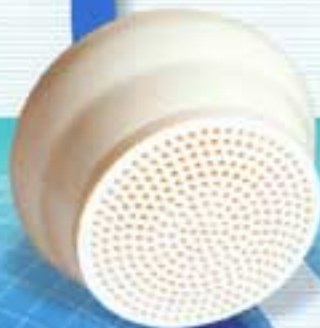
**MASER**

**TORRANT**  
USFG  
Microprocessor



The  
power  
of  
**vibron**  
technology

Twenty dedicated driver system for the transducers  
Larger area coverage. 500 sq.feet per transducer  
Equal coverage above false ceiling, below false ceiling  
and below false flooring per transducer  
10000 sq.feet of area coverage per system



**TORRANT**

**ULTRASONIC FREQUENCY GENERATOR - TORRANT**  
ADVANCED RODENT CONTROL MANAGEMENT FROM MASER  
THE ULTIMATE SOLUTION FOR YOUR DOWNTIME PROBLEMS



### INTRODUCTION:

Maser Ultrasonic Frequency Generator - TORRANT is a high frequency signal generator. These signals are fed to the transducers which in turn convert them into high frequency sound waves ( well above the 20 KHz frequency which is the upper limit of the hearing range of humans). The transducers emit intensive sound waves at high decibels (sound pressure) that are audible and painful to rodents but are inaudible and harmless to humans. The rodents usually leave the area being protected by the ultrasound waves immediately and at other times it may take as long as 4 to 6 weeks before there is a significant reduction in rodent infestation. **They do not get killed.** The transducers are quiet. If you cannot hear them, don't think that the unit is not working. You cannot hear ultrasound.



### SALIENT FEATURES:

- MASER CRMS (Centralized Reporting and Monitoring System) Software supporting :
  - Online servicing / maintenance via web meetings.
  - Scheduled or Real Time health status report generation for Systems Audit.
  - Parameter configuration of the controller.
  - Two-way Communication between the controller and the computer.
  - MASER RS / EIA 485 to RS / EIA 232C converter to transfer the controller data to the serial port of your computer.
- LCD display with on-board controls for changing the following parameters.

- **Wave Speed:** Is an indicator for the number of frequency sweeps per minute. It can have a maximum value of 130 and a minimum value of 60. The incremental size is 5 i.e. 65, 70, 75 and so on.
- **Wave Density:** Is an indicator for the number of divisions within a frequency band. It can have a maximum value of 100 and a minimum value of 80. The incremental size is 10 i.e. 80, 90 and 100.
- **Frequency Band Time:** Is an indicator of the time for which the controller would operate in a pre programmed frequency band. There are 3 bands available: Band A, Band B, and Band C. This parameter can have maximum value of 10 minutes and a minimum value of 1 minute per band. Depending upon the time frame set for each band, the controller will switch the bands automatically.
- **Machine/Controller ID:** Is an indicator of the machine/controller identification number. It can have any value within the range of 1 to 255.
- **Password Protection:** Every controller is password protected. To change the parameters mentioned above you have to key in the password. The password can be changed if required. The password can be any 5 digit number.
- **Frequency Testing:** This feature will enable the user to test and verify the frequency that is being transmitted from the controller to the transducer. This feature would be particularly useful during systems audit.
- **Transducer Testing:** All the 20 transducers can be tested in an audible range one at a time by using this feature.
- Provision for restoring all the parameters to the factory default setting.
- Inbuilt RS/EIA-485 transmission upto 1.2 kms to BMS room.
- Provision of a termination switch so that the controller data can be transferred to the computer and can be subsequently viewed by installing MASER CRMS Software.

- Daisy chain protocol for interfacing 64 controllers (nodes)
- Independent Driver for each transducer.
- Independent test facility for each transducer.
- Torrant Transducer can cover up to 500 sq. feet of area above false ceiling, below false ceiling and below false flooring.
- Torrant Transducer can be interfaced with MASER STREAME controller.
- Frequency band of > 20 Khz and < 60 Khz is pre tuned for 100 different frequencies.
- **UL** and **CE** approved transformers for power supply.  
File No: E305834, vol No.1, Sec.1.

### THE SYSTEM:

Maser USFG - TORRANT is a system of one master controller and accessories that include 20 nos. of TORRANT transducers and a pair of stands and brackets. The master controller is installed in the main control / server room and the transducers in the problematic areas i.e. above and below false ceiling and below false flooring.

TORRANT master controller needs a power connection of 5 A electrical plug point and comes equipped with a 3 pin power supply cord of 1.5 meters.

### • Maser TORRANT Transducers:

- Each transducer covers an open area of 500 Sq. feet where the average height of the ceiling is 12 feet. Even when installed in the false ceilings or false floorings it will cover an area of 500 sq. feet. The same is possible because of the transducer's streaming effect design.
- Each transducer occupies a maximum space of 15 cubic inches and is aesthetically designed to match your décor.
- Being monopolar in nature, they can be installed in any sensitive area with zero risk of sparking.
- The transducers can withstand high temperatures in the false ceilings and low temperatures in cold storages and air locks.
- The transducers do not need a power connection.

- The transducers can be tested on an audible range independently, by selecting the Transducer testing menu from the LCD panel.

### • Stands and Brackets:

- Powder coated Aluminum accessory for mounting of the master controller.

### • DATA CONVERTERS:

- MASER RS / EIA 485 to RS / EIA 232C converter to transfer the controller data to the serial port of your computer.
- Optional RS / EIA 232C to USB converter for connectivity between MASER converter and your computer in the BMS room.

### • CABLES :

- 2 Core flexible (14/40) SWG multistrand or 0.5 sq. mm single strand, CT wires of 500 yards for connectivity between the transducers and the Torrant controller.
- CAT 5 Cable for connectivity between Torrant Controller and MASER CRMS converter.
- RS / EIA 232C to USB converter for connectivity between MASER CRMS converter and your computer in the BMS room.

### • SPECIFICATIONS:

- Operating Frequency : Above 20 KHz and below 60 Khz.
- Sound Output : 80dB to 110 dB at 1 metre
- Power Output : 1 W per transducer.
- Sweeps per Minute : 130. (Configurable)
- Frequency Divisions : 100. (Configurable)
- Power Consumption : 15 Watts Approximately
- Transformer Rating : 25 V.A. **UL & CE** Approved  
File No : E305834, vol No.1, Sec.1
- Power Supply : 230 V AC / 50 Hz 14 Volts DC
- Dimensions : 325 mm X 260 mm X 80 mm
- Weight : 3.5 Kgs Approx.
- Mounting : Wall / Table Mounting

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- Atelier D' Arts & Architecture Pvt. Ltd.
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know about our product and we have installed the same to safeguard the systems of their clients.

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The MASER logo features a stylized black and red graphic above the word "MASER" in a bold, red, sans-serif font.

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- NCR
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- VSNL
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