

MASER VHFO V2 ULTRASONIC RODENT REPELLENT

User Manual





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- The VHFO Digital V2 Model supports the following protocols on RS-485
 - a. CRMS which is our proprietary protocol.
 - b. Modbus.
- By default when the system is switched ON it operates on CRMS protocol.
- There are two modes of operation AUTO Mode and MANUAL Mode.
- By default the system runs on Auto Mode with factory preset setting (kindly refer below table)
- In this mode the Wave speed and Wave density parameters will change automatically.

*Parameter Name	Factory Preset Value
Wave Speed (PPM- Pulses Per Minute)	115
Wave Density	80
Band A Time (20 KHz to 50 KHz)	1 Min
Band B Time (30 KHz to 60 KHz)	2 Mins
Band C Time (27 KHz to 57 KHz)	3 Mins
Band D Time (24 KHz to 61 KHz)	2 Mins
Password	9999

- In Manual Mode the above mentioned parameters will not change automatically and the user will have to do the same manually.
- However in the Auto and Manual modes the frequency bands will change automatically after the time for which they have been configured.
- Once the console is powered up the system will be in operation and all the twenty four transducers (Looped Connection) or twenty transducers (Dedicated Connection) connected to the console will start receiving the signal transmission from the console.



PANEL KEYPAD OPERATIONS



Transducer Testing



Password Entry To Access Main Setup



3. Enter Machine Password as mentioned above in the table by doing the following.



- 3.3. Repeat the above 2 steps for all the 4 digits of password.
- 4. Press (MENU) to access the main setup.



Parameter Setup

1.

Mode of Operation – Manual Mode

First change the mode of operation to Manual Mode. Steps are as follows.



- 1.5.d. Repeat the above 3 steps for changing the values of all parameters.
- 2. Press to go back main menu.



3. Go to step 1.5 if you wish to change another parameter else after 30 seconds controller will start displaying all the configured parameters.

Restore Factory Settings



- Enter Machine Password as mentioned above in the "Password Entry to Access Setup".
- Press three times to choose 'System Setup' parameter.
 Press then Stimes to choose 'Factory Reset 'parameter.
 Press two times for factory Reset and after Factory Reset controller will start displaying all the default parameters.

CRMS Mode



2. Enter Machine Password as mentioned above in the **"Password Entry to Access**

Setup".

3. Press two times to choose 'System Setup' parameter.





CRMS Mode Settings



 Enter Machine Password as mentioned above in the "Password Entry to Access Setup".



- Press then to choose CRMS Mode.
 Press again System will configure to CRMS Mode.
- 7. Press EXIT then to select CRMS ID (MID).
- 8. Press then or to configure MID (0-255).



9. Press MENU and System will configure to CRMS Mode with respective MID.
10. Press Three times to go back to main menu.

Modbus Mode

1. Press MENU.

2. Enter Machine Password as mentioned above in the **"Password Entry to Access**

Setup".

two times to choose 'System Setup' parameter. 3. Press MENU to choose RS-485 Mode. then 4. Press MENU to choose MODBUS Mode. then 5. Press MENU again system will configure to MODBUS Mode. 6. Press EXIT 7. three times to go back to main menu. Press



MODBUS Mode Settings





- 7. Press three times to choose 'MODBUS ID'.
 7.1. Press then or to configure MODBUS ID.
 - 7.2. Press to go back to the 'MODBUS Setup' or press three

times to go back to the Main Menu.

