

PREEDY GLASS

FREQUENTLY ASKED QUESTIONS

1. What is Terfenol-D?

Terfenol-D is a magnetostrictive material produced by Etrema Products Inc, when exposed to magnetic fields, these materials change their shape by expanding and contracting at high speed, and this phenomenon has been exploited to produce actuators in an entirely new class of audio product identified by the Trade Mark FeONIC TM.

2. How does it Work?

Forces from an actuator are used to convert and amplify audio signals that when attached directly to the surface of a glass window or wooden table will vibrate the surface and turn that window or table into the loudspeaker

3. How many watts will it handle?

As with conventional technology, the power handling can be tailored to the application.

4. Does FeONIC audio require a Bass Unit?

Using FeONIC for PA only, then they can usually handle the required frequencies quite competently, however, if a full range sound is called for, then the addition of an S Drive (subwoofer) will supplement the lower frequencies.

5. Can a transformer be added to the system to allow 100/70-volt line installations?

Of course, the actuator would work in this instance, the same way as a conventional loudspeaker.

6. Do FeONIC devices have overload protection?

The sounders are nominally rated at 30 watts and have thermal cut outs, such that if they are overloaded they reduce their output until they have cooled down.

7. Can you see or feel the vibrations?

You cannot see the vibrations but it may be possible to feel them when the volume is quite loud, however, they are not intrusive.

8. Do you need special amplification?

The systems are supplied with a pre-amplifier to increase gain level (volume) from the sounders.

9. Are FeONIC actuators Water resistant?

Not only are they water resistant, but if correctly sealed, they will work beneath water, including salty sea water, Terfenol was originally used in the development of sonar equipment for the US Navy.

10. Are FeONIC actuators easy to install?

If attaching to a vertical surface, or indeed, to the underside of a structure, then a two sided adhesive foam pad supplied with the sounders is all that is required.

11. Do the exposed actuators get hot?

No, the temperature of the solid mass does not heat up and is always cool to the touch.

12. Are the actuators easily broken?

No, this solid-state technology is extremely robust.

13. Are special activators needed for each different application?

The Terfenol-D core can be custom developed for each and every application, however, just like conventional technology, size does matter.

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