sound ESCAPE™

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WHEN YOU CAN'T SEE THE EXIT, YOU CAN HEAR IT!

IMPROVES EXIT TIMES - Escape times reduced by as much as 60%.

IMPROVES UTILISATION OF EXITS - By utilising both visual *and* sound cues.

ALLOWS FOR DESIGN FLEXIBILITY - Incorporates directional and locatable sound into exit signs.

PROVIDES OPTIONS - Zoneworks® computerised testing option available in our Sound Escape™ range.

Sound Escape™ by Clevertronics...... combining light and locatable sound for life saftey

Studies show even light smoke can reduce emergency Exit visibility to just 4m! Combine this with the fact exit signs are usually installed at heights right in the smoke layer and its unlikely you'll be able to see the exit until you are right underneath it. That's not even taking into account the effect smoke has on your eyes.

The Sound Escape™ system incorporates directional, locatable sound into exit signs which help direct evacuees to the closest exit. In smoke conditions escape times can be reduced by as much as 60%.

Clevertronics®
Emergency lighting innovation

www.clevertronics.com.au

AN ENGINEERED SOLUTION TO A SERIOUS PROBLEM

Fire alarms and EWIS systems are very good at alerting occupants *when* to get out of a building, but not *how*- that is what emergency exit signs are for. But exits may be obscured from view for a variety of reasons including visual clutter, chemical fumes and of course smoke in the event of a fire. Visual direction alone is not enough to ensure an adequate evacuation time. Sound Escape™ delivers an engineered solution for evacuation from buildings using visual *and* sound cues.

Existing emergency escape lighting standards in Australia do not deal with the effects of smoke and the evacuation process. The effectiveness of exit and emergency escape lighting is severely reduced even in relatively low smoke densities and exit signs are installed typically at heights of 2.1 to 2.7m above the floor – right in the smoke layer!

By incorporating locatable sound into the exit luminaire it can be heard as well as seen. The sound is localised and directional allowing an individual to quickly and accurately determine the origin of the sound, therefore defining the evacuation path and the final point of exit. Locatable sound decreases evacuaton times in both non smoke and smoke conditions through decreasing an evacuees decision making time, increased confidence in movement towards an exit and better utilisation of available exits.
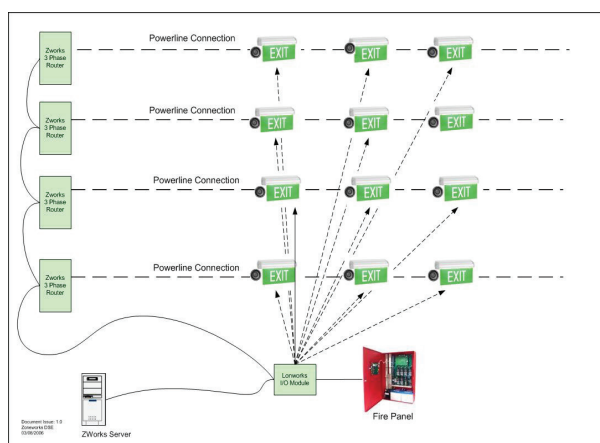
WHAT IS LOCATABLE SOUND?

Only certain types of sounds are inherently localisable and what is crucial is that they contain a large spectrum of frequencies that is broadband noise. Pure tones, simple tone combinations or narrowband noise cannot be localised. The key to directional or localised noise is the broadband sound delivered by Sound Escape™
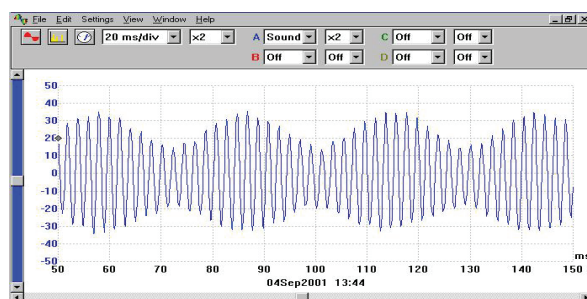
ZONEWORKS®

Zoneworks® by Clevertronics is a real time monitoring and testing system for emergency escape lighting. Zoneworks® provides the complete solution for installation, commissioning and configuration of the Sound Escape™ devices and ensures integrity of the system through real time monitoring and automated testing of both light and sound.

The following options can be configured via the Zoneworks® system for each Sound Escape™ exit:
- The broadband pulse length and gap depending on the position of the exit sign in relation to the exit.
- Annunciation message, "Exit Here", "Exit Left", "Exit Right", "Exit Ahead".

Zoneworks® provides the facility to automatically test the operation of the Sound Escape™ enabled exit signs and interface with existing fire and evacuation systems. *A genuine system solution!*