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AcousticGuard - Acoustic Shock Protection

WHAT IS ACOUSTIC SHOCK?

Acoustic Shock is a relatively new condition. It has been described as a psychological response to a sudden, loud sound heard from handsets and headsets of telephones. The cause of the condition is believed to be a hypersensitive neurological reflex (startle reflex) that is related to stress and has possible psychological consequences. Call centre workers usually remove their headset within seconds of an acoustic incident and extreme cases can fall to the ground. Damage to hearing from a sudden loud or an impulsive noise alone is not believed to occur below 120dB. Nevertheless, the recommended limit for call centre workers is between 85 to 95 dBA. Call centre workers are thought to be at increased risk because of the time they spend on the phone and because the high stress of the job makes them more susceptible to acoustic injury. With the rapid growth of the call centre industry and the associated headset use, acoustic injuries may become more common. One solution to this problem is to arrest the offending noise before it reaches a critical level, by the use of a protection device such as the AcousticGuard.



FEATURES

- 3 Levels of PROTECTION
- Powered by 2 AA batteries or plugpack
- Straight forward connection
- Essential for the hearing protection of headset operators



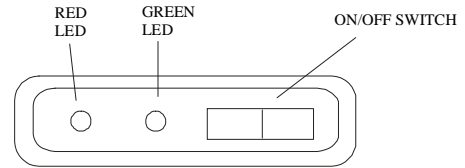
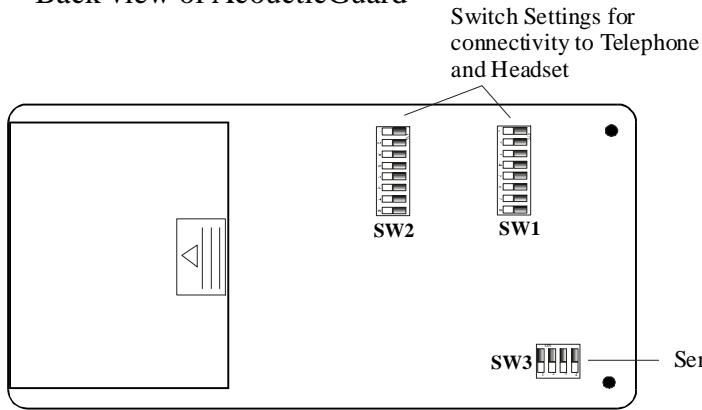
The AcousticGuard provides three levels of acoustic protection.

- 1st Level:** When standard tones are too loud – dial tone, ring tone, modem and FAX tones. The AcousticGuard, immediately reduces the level by 6dBA for the duration of the tone or loud voice signal.
- 2nd Level:** When extra loud noises are uncouncted, the AcousticGuard cuts the volume to a very low level for the duration of the noise. This is effectively a second level threshold that would represent a dangerous volume.
- 3rd Level:** Passive protection devices are connected at the output to the headset. These are fitted to some headsets.

The AcousticGuard is powered by 2 AA batteries or via an optional regulated, approved plugpack and can be easily connected between the telephone, amplifier and the Headset.

Designed and Manufactured in Australia

Back view of AcousticGuard



When Green LED is on the First level has been triggered
 When Red LED is on the Second level has been triggered

SWITCH SETTINGS

In most cases headsets are terminated with an RJ11 4P/4C.. This can be configured in 2 ways.

- Case 1 Receive on the inside pair, Transmit on the outside pair
- Case 2 Transmit on inside pair, Receive on the outside pair

SW1 configures the connection to the phone or headset amplifier.

SW2 configures the connection to the Headset.

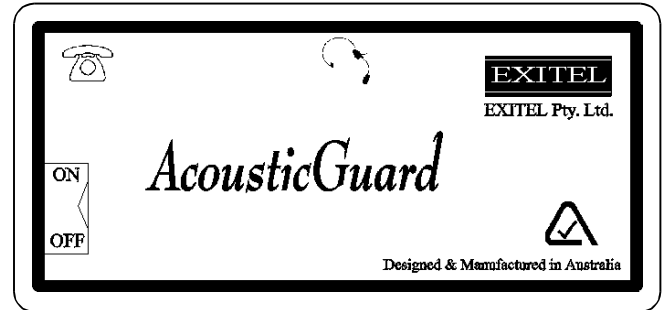
For connection as in Case 1
 SW1 and SW2 should be set:

- 1 ON
- 2 OFF
- 3 ON
- 4 OFF
- 5 OFF
- 6 ON
- 7 OFF
- 8 ON

For connection as in Case 2
 SW1 and SW2 should be set:

- 1 OFF
- 2 ON
- 3 OFF
- 4 ON
- 5 ON
- 6 OFF
- 7 ON
- 8 OFF

Connection to Telephone or Headset Amplifier Headset Connection



SENSITIVITY

Sw3	1	2	3	4
73dBA	ON	ON	ON	ON
78dBA	ON	ON	ON	OFF
81dBA	ON	ON	OFF	ON
85dBA	ON	ON	OFF	OFF
87dBA	ON	OFF	ON	ON
88dBA	ON	OFF	ON	OFF
90dBA	ON	OFF	OFF	ON
91dBA	ON	OFF	OFF	OFF
92dBA	OFF	ON	ON	ON
93dBA	OFF	ON	ON	OFF
94dBA	OFF	ON	OFF	ON
95dBA	OFF	ON	OFF	OFF
96dBA	OFF	OFF	ON	ON
97dBA	OFF	OFF	ON	OFF
98dBA	OFF	OFF	OFF	ON
99dBA	OFF	OFF	OFF	OFF

SET AT 90dBA AT MANUFACTURE

Interconnection

