

Audio wiring

Enigma and Odyssey provide two related audio outputs. These outputs carry voice messages and alerts and other signals. One of the audio outputs is able to drive a small loud speaker directly. The other output carries a low level signal intended to be fed into intercom systems that have a low level input. The high level output can often be used directly with intercom systems that provide high level inputs only.

The audio outputs are not provided with internal volume control or mute. It is intended that mute and/or volume controls are provided either as part of the audio intercom panel or they can be easily added with components easily obtainable from electronic parts shops as shown in the following images:

This image shows the usage of a potentiometer to be used as volume control. Here it is used plugged into the high level audio output. If a low resistance potentiometer is used (for example 50 ohms, 1W power capable), it can be used to control the volume of an attached 4 or 8 ohm speaker.

If you are connecting to an intercom system or audio panel that does not allow volume control, you can likely use higher value resistance potentiometers but we recommend no to go larger than about 1KOhm (1000 Ohms) in order to keep impedances low which makes the audio system more resistant to interference from other electrical systems.



This image shows an alternative arrangement if you want to install a panel switch to mute the audio signal. In this case a small SPDT switch has been used. In the muted position the audio input of the intercom system or audio panel is connected to ground (shorted) to avoid pickup of electrical noise.

Should you want to use a switch with a speaker, you can use a simple switch to disconnect the speaker as required.

