MYLOCOSOUND

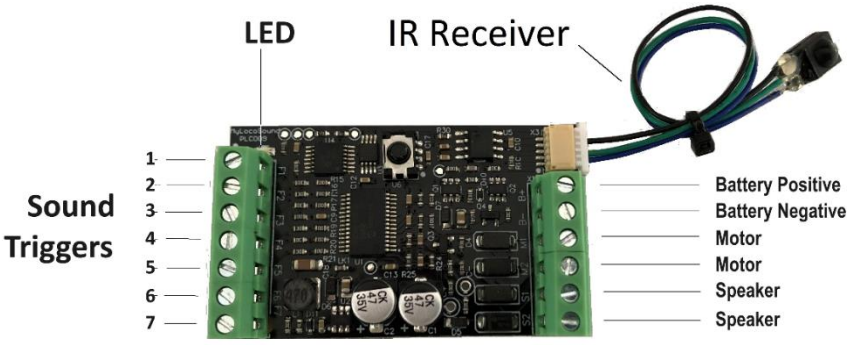
PREMIUM SOUND FOR LARGE SCALE, DC, ELECTRIC LOCOS & RAILCARS

1.OVERVIEW

- Provides four selectable motor sounds which adjust to match the loco speed and load.
- Optional compressor runs when stationary.
- Five single and dual tone horns with adjustable pitch to suit the loco.
- Full remote control of the horn, bell, airbrake, guard's whistle and optional door slam.
- Optional brake squeal.

2. CONTENTS

The soundcard generates synthesised sound which is adjustable to reproduce the sounds of most electric locos and railcars. The terminal connections on the right are necessary for the soundcard to generate electric motor sounds which vary with the loco speed and load. The terminal connections on the left trigger the various sounds where the locomotive controller has the appropriate outputs available. The trigger terminals are labelled F1 to F7 and are referred to by these labels in these instructions. For example, "Triggering F1" means to close a contact between the F1 terminal and the Battery negative terminal.



Where your controller has function buttons you can use them to trigger the above terminals F1 to F5:

- Trigger 1. Sounds the main horn. On track power the horn will sound for one second so that it can be triggered by track magnets. On battery power the horn sounds for as long as the function is triggered.
- Trigger 2. Operates the bell or the British reverse tone horn.
- Trigger 3. Sounds "All aboard" and/ or the guard's whistle.
- Trigger 4. Sounds the airbrake release.
- Trigger 5. Slams a door.

When the loco is running, the engine sounds should operate automatically, getting louder when accelerating and softer when slowing down or idle.

Sounds can also be triggered by a Sony infra-red TV remote control which can be purchased locally. Low cost, universal, TV remote controls are available from most consumer electronics stores and need to be set to Sony coding to work with the soundcard. Although it can be used when running in the garden, the remote control is intended mainly for the adjustment and testing of sounds.

The remote control communicates with the soundcard via two infra-red receivers. One is located on the soundcard and the other is on a flying lead which allows it to be fixed to any external surface of the loco. Adjustments to the sounds can then be made without taking the loco apart to access the soundcard.

3. CONFIGURING THE SOUNDCARD

The soundcard has two modes:

1. **Setting mode** in which you can select the sounds you want and can make adjustments to them.
2. **Run mode** in which the soundcard does its job on your railway.

All settings are done using the remote control and we will cover that first. So place the soundcard into Setting mode by pointing the remote control at the soundcard or the receiver on the end of the flying lead and press the **Mute** button. The LED on the soundcard will blink slowly and all sounds will cease.

Next press one of the keys on the remote control to change the sounds listed below. When you press a button, the LED will start blinking faster. At any time, you can press the **Mute** button and then the button you are changing to hear the sound you have selected and then press **Mute** again to turn it off. The options are:

Power Button – Battery or Track Power. The soundcard can be used with battery power, with or without a locomotive, or with locomotives which are powered from the track. Press this button to switch:

1 beep – Battery power. **(Default)**

2 beeps – Track power with a 9v support battery. The soundcard will automatically turn itself off when the locomotive has not moved for thirty seconds. Turning the power up a little will turn the soundcard back on. The support battery will automatically recharge when the track voltage exceeds 10v.

3 beeps – Track power with a 7.2v support battery. The soundcard will automatically turn itself off when the locomotive has not moved for thirty seconds. Turning the power up a little will turn the soundcard back on. The support battery will automatically recharge when the track voltage exceeds 8v.

Button 0 – Country. This is used to select the part of the world which your locomotive comes from. Your choice here will determine the selection of horns offered and how those horns are sounded. When you press the 0 button, one or more beeps will be heard to indicate the country currently selected as follows:

1 beep – Britain

2 beeps – North America

3 beeps – Australasia

Press the 0 button repeatedly to select the region you want. The sole purpose of changing the country is to select default horns and sounds which are appropriate. If you want to use a horn from another country because it fits your particular locomotive then there is no problem with changing the country to access that horn.

Button 1 – Horn. This is used to select the style of horn which suits your locomotive. Every one of these horns has an adjustable pitch and volume. Each time you press the 1 button the number of beeps will increase to indicate that the horn listed below has been selected. If you wish to hear that horn, press the Mute button on the remote control and then button 1 to start the horn and then

again to stop it. While the horn is sounding, you can use the channel up/down buttons to vary the pitch and also the volume buttons. The pre-selected horns available are:

Beeps	**Horn**
1	British Two Tone automatic **(British default)**
2	British Two Tone manual – play tunes using buttons 1 and 2.
3	Generic single tone **(Other default)**
4	High pitch horns
5	Lower pitch horns
6	Air whistle
7	Klaxon Horn

Note that all of these are single tones when button 2 is set to 1 to 6 beeps to ring the bell.

All except the Klaxon are two tone when button 2 is set to 7 or 8 beeps.

Button 2 – Bell. This is used to select the type of bell from the list below.

1 beep – Manual bell. Starts ringing repeatedly when the button is pressed until the button is pressed again.

2 beeps – Timed bell. When F2 is triggered, rings repeatedly for a predetermined time. To set that time, press the Mute button to exit setting mode and then press Button 2 to ring the bell. When the bell has rung for as long as you want, press Button 2 again to stop the ringing. The time is then set and the bell will ring for that time when F2 is triggered while running.

3 beeps – Automatic bell. Rings repeatedly when the motor voltage is under 4 volts. (**US Default)**

4 beeps – Automatic bell. Rings repeatedly when the motor voltage is less than 8 volts.

5 beeps – Automatic bell. Rings repeatedly when the motor voltage is less than 12 volts.

6 beeps – Manual bell. Rings once only each time the button is pressed. (**Australasian Default)**

7 beeps – Bell not required. Button sounds a reversed tone horn. (**British Default)**

8 beeps – Bell not required. Buttons 1 and 2 and functions F1 and F2 sound a two tone horn. Button/function 1 sounds Dee only and button/function 2 sounds Dar only. Therefore by use of the two buttons/functions you can play different sequences and tunes.

When two tone horns and whistles are in use, the channel up/down buttons will change the pitch of whichever tone is playing at the time.

Button 3 – Guard. This is used to select the guard's sounds from the list below.

1 beep – Sounds a guard's Acme Thunderer whistle. (**British Default)**

2 beeps – Sounds "All aboard". (**US Default)**

3 beeps – Sounds "All aboard" and then the guard's whistle. (**Australasian Default)**

Button 4 – Brakes. This gives you three braking options:

1 beep – No braking sounds required. **(Default)**

2 beeps – Automatic brake squeal whenever the locomotive comes to a halt.

3 beeps – Automatic airbrake release when moving off.

4 beeps – Automatic brake squeal whenever the locomotive comes to a halt plus automatic airbrake release when moving off.

Button 5 – Door slam.

A British Southern Electric door slam sounds each time button 5 or function 5 is triggered.

Button 7 – Compressor

1 beep – There is no compressor sound when the loco is stationary. **(Default)**

2 beeps – Automatic. A British Southern Electric compressor will automatically run when the loco is stationary.

3 beeps – Automatic. A British Metropolitan Vickers compressor will automatically run when the loco is stationary.

4 beeps – Automatic. Swiss locomotives.

Button 8 – Engine Type. There are four alternative motor sounds:

1 beep – Motor hum 1 which increases in pitch proportionally to the speed. (**Default)**

2 beeps – Motor hum 2 which increases in pitch proportionally to the speed.

3 beeps – Motor hum 3 which increases in pitch proportionally to the speed.

4 beeps – Siemens Taurus loco with its “musical” start.

5 beeps – Swiss locomotives.

It is important to tell the soundcard when your loco starts moving and hence when to start revving up**.** Do this by slowly increasing the throttle until the loco is just about to start to move. Then press the power button on the remote control. This tells the soundcard the voltage at move off.

Button 9 – The Operating Mode. There are three operating modes available:

1 beep – Indicates manual mode. In this mode all sounds are triggered according to the above settings. With battery radio control, the horn will sound for as long as the function 1 button is pressed. With track power the horn will sound for one second when triggered by track magnets.

2 beeps – Indicate simple automatic mode. This is designed for controllers which have no function buttons, as is often the case with track power, or at exhibitions, etc. where you don’t want to operate manually. The horn will sound once automatically when the loco moves off and then once more three times a minute when the loco is on motion. A reed switch can be placed under the loco and be connected to the F1 terminal to make the horns sound when the loco passes over a magnet. Another reed switch, connected to the F2 terminal, can be used to trigger the bell which will turn on when crossing a magnet and then off at the next magnet.

3 beeps – Indicate American automatic mode. Again this is designed for controllers which have no function buttons, as is often the case with track power, or at exhibitions, etc. where you don't want to operate manually. However, it follows American rules.

The horn will sound two long toots when the loco moves off forwards or three short when backing up. If these occur the wrong way around then reverse the leads at the M1/M2 terminals. When the loco stops, a single short toot will indicate brakes on. A reed switch can be placed under the loco and be connected to the F1 terminal to make the horn sound the grade crossing sequence when the loco passes over a magnet.

You can change these settings whenever you wish and those changes will be effective immediately.

Holding down the 0 button for three seconds will cause the soundcard to beep five times and reset itself back to its factory defaults. It will not change the country setting.

Remote Control	**Radio Control**	**Defaults shown in grey**	
Power		Set Start Voltage for Rev Up	
VOL up/down		Change Volume of active sound	
CH up/down		Change Sound	Horn Tone when horn sounding
			Engine tone when moving
Mute		Sound on/off	
Button 1	**F1**	Horn	
Button 2	**F2**	Bell or British Horn 2	
Button 3	**F3**	All Aboard or Guard's Whistle	
Button 4	**F4**	Brake release/squeal	
Button 5	**F5**	Door slam	
Button 6	**F6**		
Button 7		**Compressor Type**	
		1 beep	No compressor
		2 beeps	British Southern Electric compressor
		3 beeps	Metro Vick compressor
		4 beeps	Swiss locomotives
Button 8		**Engine Sound**	
		1 beep	Motor 1
		2 beeps	Motor 2
		3 beeps	Motor 3
		4 beeps	Siemens Taurus
		5 beeps	Swiss locomotives
Button 9		**Control Mode**	
		1 beep	Manual
		2 beeps	Auto horn every 20 secs
		3 beeps	US Auto horn with Track Magnets
	F7	Not used	
Button 0 Held For more than 5 seconds		Reset above settings to defaults	