

Technical Notes

Sound Control Unit

The Sound Control Unit is intended for use with our Relay Board.

Setting up the Sound Control Unit

- With nothing connected to the Sound Control Unit switch on the power using the switch at the top left hand side of the board.
- Now press the white switch and the green led should come on and stay on. If it does not stay on then press the white switch again. If it fails to stay on then you will have to adjust the sensitivity - see below.
- Now snap your fingers in front of the microphone and the green led should go off.
- Using two 4mm leads connect the Relay Board to the terminals marked 'Coil' on the Sound Control Unit.
- Reset the led and this time when you click your fingers you should see and hear the relay contacts operating.



Adjusting the Sensitivity

On the bottom left hand side of the board is a potentiometer and to adjust it you will require a small screwdriver.

To increase the sensitivity press the white switch to put the green led on. Now turn the potentiometer anti-clockwise until the led goes off then turn it back a little.

To decrease the sensitivity turn the potentiometer clockwise until the green led stays on.

Using the Sound Control Unit

Set up a circuit on the switch side of the relay which has a large current (AC or DC). This should emphasise the important point that with a relay a small current controls a large current. The photograph shows a 2A lamp being controlled by the Sound Control Unit - 60mA switching on 2000mA.

Infrared Control

Using a small screw driver unscrew the microphone. Now replace it with the phototransistor which was supplied with the Sound Control Unit. The long lead should be connected to the bottom side of the board. Using a TV remote or our Light Gate Transmitter switch the relay on using infrared. Control over distances greater than 2m can be achieved. Press the TV remote button on and off - don't hold the button down continuously.



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