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TECH NOTE C21-100

Adjusting the C-21 Set Point for Alarm and External Device Control

The C-21 is shipped from the factory with the control relay set to trigger when the first red bar is lit unless the customer has specifically requested another setting. This is a two circuit solid state relay which controls both the audio alarm and external devices. The alarm can be switched off, and when it is, external devices control is also disconnected.

The set-point relay is a FET relay so its contacts will only handle 30 volts at 130 mA, AC or DC. If higher power than that must be switched, such as an ozone generator, a power-handling relay should be inserted between our relay contacts and the equipment it is controlling. Such a power-handling relay will need its own source of coil power. If it is a 12 volt DC relay, suitable coil power can be obtained from our AC adapter. Contact Eco Sensors, Inc. for various hook-up suggestions.

The set-point can be changed by opening the instrument case and locating the 8 toggle DIP switch near the edge of the board. This switch allows reconnecting the set-point across any of the top 8 bars of the LED readout. Switch number 1 connects to the top red bar, all the way down to switch 8 controlling through the 3rd green bar from the bottom. The programming is:

<u>Switch No.</u>	<u>Bar Graph</u>
1	3rd red
2	2nd red
3	1st red
4	3rd yellow
5	2nd yellow
6	1st yellow
7	4th green
8	3rd green

Please note that no more than one switch should be down (on) at a time.