

# OPERATOR'S MANUAL

**Model SLC1 / SLC2  
Sound Level Control System**

## OPERATOR'S MANUAL MODEL SLC1 / SLC2

Gold Line's Sound Level Control System is a single rack space sound pressure level meter with special triggering circuits. When monitored sound exceeds a specified level, a relay connected to a switched output is activated. The switched output will then activate connected ancillary equipment which can be used to notify a person, light a light, ring a bell, or activate a compressor. It can even be used to activate a counter to determine how often sound exceeds the specified level. A second relay also allows the SLC1 to reduce sound levels by 6dB (20%) for 5 seconds. This feature is designed to encourage performers/ DJs to reduce sound to a specified level. The choice of ancillary equipment is made by the installer to accommodate the situation.

**TRIGGERING CIRCUIT:** SLC1/SLC2. This circuit will respond when the unit monitors a sound which is over the user's specified level. A switched output control relay and an audio attenuation circuit (SLC1 only) will be triggered.

**SWITCHED OUTPUT CONTROL:** The SLC1/SLC2 provides a rear panel mounted terminal strip to which an installer can connect ancillary equipment suitable for the installation. This terminal strip becomes "active" when the switched output control relay is triggered. Connected equipment can range from a simple light bulb to a heavy duty solid state relay capable of handling multiple announcement devices.

**AUDIO ATTENUATION CIRCUIT:** The SLC1 will accommodate two audio channels. The input and output connectors for these channels are hard wired through the unit and will not interfere with the sound quality. If connected, the audio attenuation circuit will reduce the all over sound level by 6dB (20%) for a 5 second interval. If the sound level is not reduced the circuit will be repeatedly activated to reduce the sound level for 5 second intervals. The switched output control circuit and the audio attenuation circuit can be utilized simultaneously or independently.

**THE CONTROLS:** All controls are located on the rear panel.

**SET:** SLC1/SLC2. The SET control specifies the maximum SPL allowed before the triggering circuit's fire. With the selector switch in the SET position, turn the SET LEVEL to the desired SPL that will be shown on the front panel readout. Return the selector to READ for normal monitoring functions. The front panel readout will now show the monitored SPL.

**SPL WEIGHT:** SLC1/SLC2. Measurements can be made in SPL FLAT, A, or C. Position the selectors on the dipswitch to the weighting desired.

**THE RESPONSE CONTROL:** A potentiometer is provided to determine how quickly the SLC1 will respond to a signal that exceeds the specified level. At MINIMUM (fully CCW) the SLC1 is most sensitive and will respond quickly to a small amount of overage. As the control is advanced, it will take longer to respond to the same amount of overage but will respond more quickly to a larger overage. At MAXIMUM (fully CW) the SLC1 will take a while to respond to a small overage but will respond relatively quickly to a large overage.

**RECOVERY CONTROL:** This control has been PRE-SET by the factory to cover most situations. A cap has been placed over the control. For special applications the customer can remove the cap and re-set this control. The RECOVERY CONTROL determines how quickly the SLC1 responds to occasional bursts that exceed the specified level. At minimum (fully CCW) the SLC1 will ignore short duration bursts that exceed the specified sound level. As the control is advanced, the SLC1 will retain the effect of short bursts longer resulting in a more sensitive response. At MAXIMUM (fully CW) the unit will be factoring in any overages regardless of duration.

**RESET DELAY CONTROL:** SLC1. The reset control sets the time interval after the relay is triggered before it will allow the relay to trigger again. The minimum interval is approximately 10 seconds and the maximum interval approximately 120 seconds.

**THE MICROPHONE:** A flat omnidirectional electret microphone is provided with the SLC1/SLC2. It has been calibrated to the unit and can be checked with a standard 1/4 inch acoustical calibrator. Phantom powering for the microphone is provided. The microphone terminates in a standard XLR connector for easy interconnection with standard audio cables allowing for easy installation at the location to be monitored. An XLR is provided on the rear panel for microphone input to the SLC1/SLC2.

## SPECIFICATIONS

**MEASUREMENT RANGE:** Microphone input: 47dB - 123dB SPL

**INPUTS:** Microphone: XLR 3 pin receptacle. Pin (1) Ground. Pin (2) Hot, Pin (3) Neutral.  
Audio: RCA jacks. (2) SLC1 only.

**OUTPUTS:** Switched terminals: Fused 2 position strip rated @ 1A, 120Vac.  
Audio: RCA jacks. (2) SLC1 only.

**MICROPHONE:** 600Ω omnidirectional electret condenser. Model MK8.

**DISPLAY (SPL):** 3 digit via 7 segment readout.

**TRIGGER LEVEL:** 60dB - 120dB typical.

**RESPONSE, RECOVERY TIMES:** Inter-related, vary depending on type of signal vs. control setting. SLC1 only.

**RESET DELAY:** 10s - 120s. SLC1 only.

**MONITORED SOURCE LEVEL REDUCTION:** 6dB (20%) for 5s. SLC1 only.

**WEIGHTING:** IEC A, C and Flat.

**POWER:** 12Vdc @ 500mA via 3.5mm jack. (Power adapter supplied).

**SIZE (W x H x D); WEIGHT:** 19" x 1-3/4" x 8 1/2"; 3 lbs.

**CASE MATERIAL:** Painted aluminum.

Enter your serial# \_\_\_\_\_ date of purchase \_\_\_\_\_

10-383 m\_slc1\_3a13.doc

### WARRANTY and Factory Service

GOLD LINE products are proudly made in the USA and are covered by a one year limited warranty. For details of this warranty, consult the enclosed warranty registration card or your local dealer.

GOLD LINE Customer Service will help you get the most from your new controller. For answers to questions regarding use of the unit, or for information not covered in this manual, please write us. If you are experiencing difficulties with your controller, please consult your dealer regarding factory service. If factory service is needed, you may call or fax us between 9:00am and 4:30pm US Eastern Time for instructions and a return authorization.



Box 500 West Redding, CT. 06896 203-938-2588 phone - 203-938-8740 fax  
<http://www.gold-line.com> Email - [sales@gold-line.com](mailto:sales@gold-line.com)