

OPERATORS MANUAL

**Model SPL120/120L/120RM3/SPL162
Sound Pressure Level Meters**

GENERAL:

GOLD LINE Sound Pressure Level Meters are precision instruments designed to measure continuous sound. They feature a digital numeric display that can easily be read from a distance. The digital display reads both fast and slow inputs without the need for a "slow" switch setting as in metered units. Sound level readings are based on ANSI S1.4 standards as published in the American National Standards for sound level meters.

Sound level readings are provided in either "FLAT", IEC "A" or "C" weighting. The SPL120 series meters were designed for general field use such as measurement of typical levels produced by environmental and industrial noise. Applications include OSHA compliance, enforcement of noise statutes, setting noise levels of sound systems or monitoring clubs and discos. Additional CONTRACTOR and THEATER applications include setting DOLBY LEVELS and insuring that speakers are set to proper levels.

Model SPL120/SPL162: A portable, battery operated sound level meter with built-in microphone. Each includes a HI SPL function switch that shows the highest SPL reading monitored. The HOLD function will freeze the display when the ON/OFF switch is moved to the HOLD position. The calibration of the either can be verified and adjusted in the field by inserting the microphone into an acoustic calibrator fitted for a ½ diameter microphone and adjusting a calibration potentiometer on the side of the unit.

Model SPL120L: The SPL120L (low level) is provided with a detachable microphone, Model MK8. The MK8 attaches directly to the SPL120L via the XLR microphone input jack, or can be remoted via a microphone cable. The length of cable is not critical and will not effect the SPL readings with a cable length of up to 100 feet. The SPL120L has a built-in attenuator circuit that extends the sensitivity of the unit allowing for the measurement of lower level signals. For SPL's of 65dB or greater, the far left switch is set to ON and the SPL is read directly from the readout. For SPL's less than 65dB SPL, set the far left switch to -20dB, then subtract 20 from the reading shown.

Model SPL120RM3: A Rack Mounted SPL Meter switchable for 3 microphones is perfect for live sound applications. It allows you to place one mic near the mixer, one mic on the stage, and one mic in the audience. This allows the sound engineer to easily switch to any of the three microphones and monitor sound levels at each of these positions. The SPL120RM3 is supplied with three MK8 microphones. Three XLR MICROPHONE INPUTS are provided on the rear panel.

SPECIFICATIONS

MODELS SPL120 / SPL120L / SPL162

MEASUREMENT RANGE: SPL120 - Microphone input: 47dB - 123dB SPL
SPL120L - Microphone input: 35dB - 123dB SPL
SPL120/120L - Line input: -70dBm to +5dBm
SPL162 - Microphone input: 100dB - 162dB SPL
SPL162 - Line input: -60dBm to +10dBm

INPUTS: SPL120/162 - Microphone: Built-in omnidirectional electret condenser.
SPL120L - Microphone: Detachable 600Ω omnidirectional electret condenser. Model MK8.
SPL120/120L/162 - Line: Unbalanced 3.5m

DISPLAY: Four digit via 7 segment display.

RANGE SWITCH: SPL for normal response; HI SPL to capture highest SPL measured.

WEIGHTING: IEC A, C and FLAT.

TIME WEIGHTING: rms fast.

ATTACK TIME: 0.15s.

APPROVALS: Emissions: - EN 55022 B - FCC Class B
Immunity: - EN 55024 B

POWER REQUIREMENTS: Batteries - Eight AA alkaline or nicad.
External - 12Vdc @ 240mA via 2.5mm jack
Internal switch must be set to NICAD when recharging NICAD batteries.
BATTERY LOW INDICATOR: Unit will read 00.1 on display.

SIZE (W x H x D); WEIGHT: 3" x 8" x 2"; 12 oz.
CASE MATERIAL: High impact ABS.

MODEL SPL120RM3
MEASUREMENT RANGE: 47dB - 123dB SPL

INPUTS: Three - XLR 3 pin receptacles available, selectable by front panel switch.
Unit supplied with (3) three Model MK8 600Ω omnidirectional electret condenser microphones.

DISPLAY: Four digit via 7 segment display.

WEIGHTING: IEC A, C and FLAT. Internally selectable.
TIME WEIGHTING: rms Fast.

ATTACK TIME: 0.15s.

APPROVALS: Emissions: - EN 55022 B - FCC Class B
Immunity: - EN 55024 B

POWER REQUIREMENTS: External - 12Vdc @ 240mA via 3.5mm jack. (Power adapter supplied)

SIZE (W x H x D); WEIGHT: 19" x 1.75" x 4½"; 24 oz.
CASE MATERIAL: Painted aluminum.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Pursuant to Part 15 of the FCC rules, any changes or modifications not expressly approved by Gold Line may cause harmful interference and void the FCC authorization to operate the equipment.

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 SPL meter. 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 SPL meter, 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.

Enter your serial# _____ **date of purchase** _____

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