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Page 8 of 8



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Page 1 of 8



Model SL130



User Manual



Notes:

Warranty

This product is fully warranted against defective materials and/or workmanship for a period of one year after purchase, provided it was not improperly used. For your protection, please use this product as soon as possible. If returned, it must be securely wrapped, sent prepaid and insured to:

Miltronics Mfg., Inc.
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PH: 603-352-3333
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Please include a note with name, address, telephone number and description of the problem. Although we provide assistance on Miltronics and Pacer products both personally and through our literature, it is still the total responsibility of the customer to determine the suitability of the product for use in their application.

This manual is provided by Miltronics Mfg., Inc. without any kind of warranty. Precautions have been taken in accurately preparing this manual; however, we neither assume responsibility for any omissions or errors that may appear nor assume liability for any damages that result from the use of the products in accordance with the information contained in the manual.



Notes:



INTRODUCTION

The model SL130 sound level meter is a multifunction instrument. It measures both the A and C weighting. It is excellent for checking noise levels to remain in standards of compliance and has many other applications. It is used for the safety/health area and in quality control of noise. It meets both the ANSI S1.4-1983, Type 2 and the IEC 651, Type 2 standards.

SECTION 1 – SPECIFICATIONS

| | |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Range: | A – Weighting: 30 – 130 dB C – Weighting: 35 – 130 dB |
| Attenuator: | 30 – 80 dB 50 – 100 dB 80 – 130 dB 50 dB on each step with over/under range indication |
| Frequency Range: | 31.5 – 8000 Hz acoustical |
| Accuracy: | Conforms to ANSI S1.4-1983 Type 2A and IEC 651 Type 2 |
| Resolution: | 0.1 dB |
| Frequency Weighting: | A and C |
| Time Weighting: | Slow or Fast with Maximum Hold |
| Calibration: | Built-in calibrator (1Hz square wave) |
| Analog Output: | AC – 0.5 Vrms corresponding to top of each range, output impedance 600Ω DC – 0.3 to 1.3VDC 10mV/dB, output impedance 100 Ω |
| Operating Temperature: | 5° - 115°F |
| Power Supply: | 9V Duracell PC1604 Procell Alkaline Battery or equivalent |
| Battery Life: | Approximately 50 hours |
| Battery check: | Automatic |
| Display: | 0.5” LCD, 3 ½ digits |
| Weight: | 8.3 ounces |
| Dimensions: | 8.6” x 3.1” x 1.2” |
| Included: | 9V Battery, User Manual, Screwdriver and Carrying Case |

SECTION 2 – SWITCH FUNCTIONS

ON/OFF The “POWER” switch has three positions, OFF (lowest position), ON with DC analog-out (middle) and ON with AC analog-out (top).

FUNCT The “FUNCT” switch has three positions, “A” frequency weighting (lowest position), “C” frequency weighting (middle), and “calibration” mode (top).
NOTE: See SECTION 3 – OPERATION for calibration instructions

T.CONST The “T.CONST” switch has three positions, “slow time weighting” - 1.5 second period (lowest position), “fast time weighting” – 0.2 second period (middle), and “maximum hold” (top). In the latter position the unit will continuously display the maximum reading since switched to HOLD.

RANGE The “RANGE” switch has three positions, “30 to 80dB” (lowest position), “50 to 100dB” (middle) and “80 to 130dB” (top). The unit will measure accurately within 10dB above or below the range setting. Begin in lowest range and move switch up if “OVER” is indicated on the display.

SECTION 3 – OPERATION

- 1) Remove the lid and attach battery (power switch should be OFF).
- 2) Turn unit ON. If the “low battery indicator” is displayed, change batteries.
- 3) Calibrate the instrument.
 - a. Slide “RANGE” switch to middle position (50 to 100dB).
 - b. Slide “T.CONST” switch to the lower position (SLOW).
 - c. Slide “FUNCT” switch to the upper position (CAL 94dB).
 - d. The meter should display 94.0dB \pm 0.2dB. If not, turn the adjuster screw (to the left of the “FUNCT” switch) with the included mini screw driver until the meter displays 94.0dB \pm 0.2dB.
- 4) Slide “FUNCT” switch to the desired frequency weighting, “A” or “C”.
- 5) Slide “T.CONST” switch to the desired time weighting, “SLOW”, “FAST” or “MAX. HOLD”.
- 6) Point the microphone at the noise source to be measured and adjust “RANGE” switch beginning at the “30 to 80dB” (lowest) position. Move up until “OVER” is no longer displayed. (See RANGE in SECTION 2)
- 7) Slide “POWER” switch to OFF when instrument is not in use.