Sound Level Calibrator

This Sound Level Calibrator is small In size, light in weight, easy to carry. Although complex and advanced, it is convenient to use and operate. Its ruggedness will allow many years of use if proper operating techniques are followed. Please read the following instructions carefully and always keep this manual within easy reach.

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1.Application

* Handy sound source for quick and easy calibration of sound level meters and sound measuring systems.

- * The Calibrator employs solid state integrated circuitry that provides accurate and stable performance.
- * Sensitivity calibration of microphones.
- * Suitable for field and laboratory use .

2.Properties

- * Sound pressure level 94dB and 114 dB.
- * Accuracy: □±0.5dB(20°C,760mm Hg) □±0.3dB(20°C,760mm Hg)
- * Frequency of 1000±0.01% Hz allows calibration with A,B,C or D weighting networks or linear.
- * Extremely low influence of static pressure .
- * Conforms to IEC 942 class 1.
- * Calibration of 1" and 1/2" microphones. * Battery operated .
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Fig-1 Information Form

3-1	Transducer Cap
3-2	Microphone adaptor
3-3	114dB Key
3-4	94dB Key
3-5	Power Key

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4.Operation

The Calibrator is designed to check the accuracy of many types of sound instruments, not only our equipment. Our instruments commonly use the standard 1/2-inch diameter ceramic microphone which fits directly into the calibrator coupler cavity. When testing an instrument with a 1-inch microphone, the proper adaptor ring must first be taken out. This keeps a close tolerance fit around the

- * Temperature Range: -10 to +50°C operating .
- * Storage (with batteries removed) -40 to +50°C.
- * Temperature Coefficient: 0 to 0.01 dB/°C .
- * Altitude Effects: Approximately 0.1dB decrease for each 2000 feet increase in altitude from sea level to 12,000 feet elevation, or comparable atmospheric pressure change (approximately every 50 mm of Hg decrease).
- * Power Source: 2x1.5V AAA(UM-4) Battery.Battery life approximately 100 hours.
- * Size:51x51x137mm 2.0x2.0x5.4inch
- * Weight: 200g (Not Including Battery) 7.05oz

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microphone head. Be sure the microphone fits down inside the adaptor and rests on the lower rim. This rim supports the microphone and forms the necessary inner seal.

5.Operation procedure

- 5.1 Press the Power Key, then press the 114dB Key or 94dB Key to select demanded parameters. A 1000 Hz tone should be heard.
- 5.2 Turn on the sound level meter which is to be calibrated.
- 5.3 Carefully insert the microphone into the calibrator coupler .Be sure the microphone is down inside the coupler resting flush on the lower coupler rim .
- 5.4 When calibration has been made , carefully remove the microphone and turn calibrator to OFF .

6.Battery replacement

When the supply voltage is lower than the specified value, the display

3. Front panel descriptions



FIG-1

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will not be bright or dim, at this point, the need to replace the battery, the method is as follows: First turn the power off, and then transferred to the Instrument back, open the power supply cover, take out two 1.5 V batteries. Finally put new batteries, mount the power supply cover.

7.Care Of The Instrument

- 7.1 Immediately clean any spilled materials from the Instrument and wipe dry . If spillage is corrosive , use a suitable cleaner to remove it and to neutralize corrosive action.
- 7.2 Remember to turn off the Instrument when not using it .
- 7.3 Avoid prolonged exposure or usage in areas subject to temperature and humidity extremes, vibration, mechanical shock, dust, corrosive fumes, and strong electrostatic and

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- elctromagnetic interference . 7.4 Be sure the transducer cap is firmly in place.
- 7.5 If the Instrument has not been used for 30 days , check battery for leakage, and replace if necessary.
- 7.6 When the Instrument is not in use, store it in a room free from temperature extremes , dust , corrosive fumes, mechanical vibration , or shock . If storage time is expected to exceed 30 days, remove the battery.

8.Accessories

Carrying case	.1 PC
Operation manual	.1 PC