AMPROBE®

Data Sheet



SM-20-A
Sound Meter-A

The Amprobe SM-20-A Sound Level Meter has been designed to meet the measurement requirements of safety Engineers, Health, Industrial safety offices and quality control in various environments. It offers two types of measurements: A weighting and C weight.

The A weighting is for general noise sound level and the C weighting is for measuring sound level of acoustic material control in various environments (ie 94dB 1 kHz etc...). The SM-20-A conforms to the IEC651 Type 2,ANSI S1.4 Type 2, and JISC1502 requirements for Sound Level Meters. Which means the SM-20-A uses two different weighting filters required by the IEC 651 and ANSI S1.4 Type 2: The A-Weighting and the C-Weighting audio filtering.

- **Designed to meet the measurement requirements of Safety Engineers, Health, Industrial safety offices and quality control in various environments.**
- **A and C weightings for checking compliance with safety regulations as well as acoustic analysis**
- **Measuring ranges: A Weighting 30~130dB, C Weighting 35~130dB**
- **Frequency range: 31.5Hz~8KHz**
- **Display with 0.1dB steps on a 4 digit LCD**
- **Slow (1 sec) and fast (125ms) response settings to check peak and average noise levels**
- **MAX/MIN recording**
- **Internal memory, 14,000 records**
- **Recording intervals from 1 second to 8 hours**
- **PC computer download capabilities**
- **Data Hold to freeze reading on digital display**
- **CE, designed to meet IEC651 Type2, ANSI S1.4 Type2**

No hassle warranty

No waiting.

No shipping charges.

WARRANTY NO HASSLE PROGRAM

Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: $500 MSLP limit)

N10140 CE

SM-20-A Sound Meter

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Specifications

General Specifications	
Display	4 digits LCD
Microphone	1/2 inch Electret condenser microphone
Low Battery Indication	Replace battery when LCD displays "⊟"
Power Supply	9V NEDA 1604, IEC 6F22, JIS 006P battery
Power Life	Approx. 50 hrs (alkaline Battery)
Auto Power Off	Approx. 5 min
Environment	Indoor operation, < 2000 m

Temperature / Humidity	
Operation	5°C to 40°C (41°F to 104°F); < 80% RH
Storage	-10°C to 60°C (14°F to 140°F); < 70% RH
Dimension	200 x 55 x 38 mm (7.8 x 2.2 x 1.5 in)
Weight	233g. (0.5 lb.) including battery

Electrical (Audio)	
Standard applied	IEC 651 Type2, ANSI 1.4 Type 2
Dynamic range	50 dB
Resolution	0.1 dB, Display Update: 0.5 sec.
Time weighting	FAST(125mS), SLOW(1 sec)
Frequency range:	31.5 Hz to 8 kHz
Measuring level range	(Auto Range) A Weighting: 30 to 130 dB C Weighting: 35 to 130 dB
Accuracy	± 1.5 dB
Calibration cycle	1 year
Accessories	Carrying case, windscreen, User manual, USB cable and 9V battery
CE-EMC	EN61326-1 This product complies with requirements of the following European Community Directives: 89/336/EEC (Electromagnetic Compatibility) and 73/23/EEC (Low Voltage) as amended by 93/68/EEC (CE Marking). However, electrical noise or intense electromagnetic fields in the vicinity of the equipment may disturb the measurement circuit. Measuring instruments will also respond to unwanted signals that may be present within the measurement circuit. Users should exercise care and take appropriate precautions to avoid misleading results when making measurements in the presence of electronic interference.

OPTIONAL ACCESSORIES

SM-CAL1
Sound Meter Calibrator with two output levels of 94dB and 114dB, output frequency of 1000Hz, fits ½" microphones

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