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Acoustic Measurement Kit MP-B



MP-B_datasheet_r00.sxw

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Preamp features

- Max. 40dB stepped gain + 1 variable gain setting
- bias supply for calibrated EMM-8cal
- input RF filter
- clipping indicator (bipolar detection)
- power good / low battery status LED
- single 9V battery operation
- mic and amp matching
- gold plated RCA (Cinch) input and output
- connector for plug in power supply

EMM- 8 Microphone Features

- dimension (inches) 12 3/8 X 5/16 pickup dia
- dimension (mm) 314 X 8 pickup dia
- Up to 120 dB SPL acoustic SPL
- Individually calibrated with Bruel & Kjaer model B & K 4133 1/2 inch freefield mic.
- RF Phono Connector
- S/N > 58 dB
- Sensitivity: 6 mV per Pa +/- 4 dB (1 Khz / 2.5 V Biase)

Specification:

Number of preamplifier channels - 1 Mic
Connectors - RF phono jacks for both inputs and outputs
Mic Input - unbalanced, capacitor coupled,
Mic Output - unbalanced, capacitor coupled, short circuit protected, output level without clipping 0,775Vrms
Gain Range - up to 40 dB input to output (phase error <20deg)
Frequency Response - 20 Hz ... 20 kHz, +/-0.4 dB (relative to 1 kHz)
Max. Output Level before clipping – typ. 3Vpp (preamplifier section)
Clipping indicator LED - Red indicates clipping short attack, long release time. Bipolar detection (typ. 2.5Vpp)
THD 0.02% typical, THD 0.04% max, THD & Noise < 0.06% typical
Bias Supply - typ. 4V coupled via 6.8kOhm resistor (low-

pass-filtered for better noise performance)
Power - 1x 9V batterie or plug-in power supply connector or 5V-USB power
Power LED - Green indicates power ON, flashing LED indicates low batt. (Vbatt < 5.5V)
Polarity - Mic input to Mic output is non-inverting.
Operating Temperature Range
0 to 40 degrees Celsius (32 to 104 degrees F)
Power up delay – approx. 10 sec
Dimensions
34 mm x 68 mm x 120 mm (h x w x d) (1 11/32" x 2 11/16" x 4 23/32")
Weight (unit only)
120 grams (4 1/8 oz.) *battery removed*
Certification
CE Conformity statement, RoHS category 9 compliant

