
TOA Electronics, Inc.

IMPEDANCE METER

ZM-104



FEATURES

- measures speaker line impedances
- fully portable
- easy operation
- wide coverage: 5 - 100,000 Ω
- reliable
- compact and lightweight

SPECIFICATIONS

Reading Method	Direct (indicated ohms on meter)
Measurement Range	x 1 range 5-1,000 Ω x 10 range: 50-10,000 Ω x 100 range: 500-100,000 Ω
Oscillation Frequency	1 kHz $\pm 10\%$
Accuracy	+10%
Power Supply	Four "AA" size (UM-3) batteries (6 volts)
Service Life, when continuously used	x 1 range...30 hrs. x 10 range, 100 range...60 hrs.
Dimensions in in. (mm)	4.53(115) W x 7.32(186) D x 2.16(55) H
Weight (with batteries)	2.1 lbs.(960 gr)
Standard Accessories	1 Carrying case 1 set, Measuring leads 1 impedance-power chart

DESCRIPTION

The TOA Impedance Meter, ZM-104, has been designed to measure impedances in the speaker lines in sound systems. It is fully portable and is operated from internal batteries. This handy meter provides accurate direct readings in the manner of a circuit meter, simply by disconnecting the speaker line from the amplifier and connecting it to the measuring leads.

The range selector switch allows selection of three ranges, from five to one hundred thousand Ω . Each time the range selector switch is transferred, zero Ω adjustment is necessary before operation.

Its accuracy is less than plus or minus ten percent on all ranges. The ZM-104 requires one battery change only after more than 30 hours of continuous use.

The ZM-104 is supplied with a convenient Impedance Output Chart.

The entire unit is sturdy, light and easy to carry. It weighs a mere 2 pounds.

Specifications are subject to change without notice.