

Audio Impedance Tester



Features

- 0Ω adjustment.
- Low battery indication
- Data hold function.
- Measures transformer impedances
- Convenient portable battery operation
- Large LCD: 68mm × 34mm (2.677" × 1.338")
- True measurement of speaker systems actual impedance at 1kHz
- Three test ranges (200Ω /2kΩ/ 20kΩ) allow testing of home theatre and commercial sound systems
- Timer function provides continuous hands free operation. The timer will last 3-5 minutes after pressing TEST ON/OFF button.

Specifications

Measurement Range	: 200Ω /2KΩ/ 20KΩ
Test frequency	: 1kHz
Accuracy	: ±2% rdg ±2dgt
Protection	: Meets IEC-1010 (EN61010), Installation CAT. III 100V
Power Requirements	: 9V DC (6 × 1.5V "AA" UM-3 batteries)
Dimensions	: 3" (H) × 7" (W) × 3-1/2" (D)
Low Battery Indication	:  symbol appears on the display
Data Hold Indication	: "HOLD" symbol appears on the display
Display	: LCD 3 1/2 digit (2000 count)
Weight	: Approx. 1.2 lbs. (battery included)
Included Accessories	: Test leads, instruction manual, carry case

Recommended to use

It is recommended a drawing be first made of the speaker system to verify proper installation.

Take care to ensure that the system is not connected to the amplifier.

Ensure the system under test is not live.

Check battery, if  symbol appears on the display, replace with new batteries.

Short the tips of the leads, adjust the "0Ω.ADJ", control to set the reading of zero.

Connect test leads to speaker or speaker leads.

Note: Speakers may be connected together either in series or parallel to achieve desired final impedance.

Rotary the function switch to suitable range then press the push button to test and take the reading.

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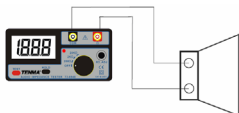
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Performing Measurements

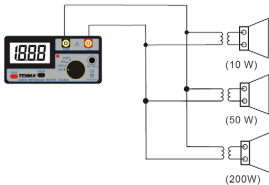
Measuring an Individual Speaker

Individual speakers are typically between 2Ω and 16Ω. For these types, the 200Ω setting should be used. Some special application speakers may be of much higher impedance. Speakers of up to 2KΩ (20,000Ω) may be measured using the 2KΩ or 20KΩ. These higher settings also allow measurement of speakers when connected to impedance matching transformers or volume controls. In these cases, the speaker should be connected to the meter as shown.



Measuring 25V/70V Distributed Speaker Systems

Large distributed systems typically utilize 25.2V or 70.7V transformers (50V and 100V in Europe), to greatly ease the connection of multiple speakers and facilitate long cable runs. These speakers are connected in parallel, as shown, with total wattage ratings added to calculate the overall rating of the system. Connecting this meter to a speaker arrangement such as this will provide the overall impedance of the system.



Using the formula shown below you can calculate the wattage.

$$\frac{E^2}{Z} = P$$

E = Voltage Z = Impedance P = Wattage

Simply put, when connected to a distributed system, take the voltage of the system (normally 70.7V or 25.2V), squared, divided by the impedance displayed on the meter. Answer will be the total system wattage. This total wattage must not exceed the wattage output rating of the amplifier, or damage may occur.

Part Number Table

Description	Part Number
Audio Impedance Tester	72-6948

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