

### **Maico MI24 Impedance Screener (Brand Name or Equal)**

#### **General**

The Impedance Screener is a diagnostic instrument used to determine whether hearing loss can be helped by a hearing aid or may require medical treatment. It uses a probe to release low pitched tones in the middle ear. The tones will cause air pressure change in the ear canal and eardrum, or tympanic membrane. The tympanometer provides a graphically representation of the relationship between this air pressure and movement of the eardrum.

#### **Warranty Requirements**

Manufacturer must offer a 1 year warranty that product is free from defects in materials and workmanship. All defects will be replaced or repaired by the manufacturer at no cost to the buyer.

#### **Distinctive Features**

- a. Adjustable probe with integrated multifunctional button
- b. Automatic test function: The impedance test starts automatically after the probe seal has been achieved. The reflex test is increased automatically until a reflex is detected or the maximum is reached.
- c. LCD screen display
- d. Memory storage and print capabilities
- e. Fast: 3 seconds per test

#### **Technical Features (minimum requirement)**

- a. Probe Frequency and Intensity: 226Hz +/- 1%, 85 dB SPL +/- 1.5 dB in an IEC acoustic coupler
- b. Pressure Range: -400 to +200 daPa
- c. Volume Range: 0.1 to 6.0 ml; ear canal volume: 0.1 to 8.0 ml
- d. Accuracy of Measurement: +/- 5% or 0.1 cm<sup>3</sup> of equivalent volume according to EN60645-5
- e. Test Time Measurement: <3 seconds for 1 tympanometry measurement
- f. Test Frequencies: 0.5, 1, 2, 4, kHz +/- 1%
- g. Test Method: ipsilateral; contralateral (MI 24C)
- h. Test Level Ipsilateral: 70 to 110 dB HL
- i. Test Level Contralateral: 70 to 120 dB HL