



Clarinet Basic - Plus

CLINICAL MIDDLE EAR ANALYZER



CLASSIFICATION

EN 60645-5 / ANSI S3.39: Type 1

PROBE TONES

Frequency: 226 Hz

678, 800, 1000 Hz (Clarinet Plus only)

Level: 85 dB SPL (@ 226 Hz)

80 dB SPL (@ 678 Hz)

75 dB SPL (@ 800, 1000 Hz)

ADMITTANCE MEASUREMENT SYSTEM

Measurement range: $-2 \div 8.0$ mmho (@ 226 Hz)

$-4 \div 16.0$ mmho (@ 678, 800 and 1000 Hz)

PRESSURE SYSTEM

Rotary type pump with endless flow

AVAILABLE TESTS

- Tympanometry (automatic and manual)
- Multi-component tympanometry (Plus only)
- Acoustic Reflex Threshold (automatic and manual)
- Acoustic Reflex Decay
- Acoustic Reflex Latency
- Eustachian Tube Function (intact and perforated TM)

TYMPANOMETRY

Viewing mode: absolute or compensated

Measured components: Admittance [Y]

Susceptance [B] (Clarinet Plus only)

Conductance [G] (Clarinet Plus only)

Single or multiple scan (up to 3)

Selectable sweep direction

User selectable pressure range

Maximum range: -600 to $+400$ daPa

Safety limits: -800 daPa and $+600$ daPa

Available rates: 15, 50, 100, 200, 300, 400, 600 daPa/sec and AUTO (200-600 daPa/sec)

Manual pressure adjustment

Auto start feature

ACOUSTIC REFLEX TEST

Ipsilateral and contralateral stimulation

Non-acoustic stimulation

Stimulus ON-Time: selectable from 0.5s to 2.5s

Stimulus OFF-Time: selectable from 0.5s to 2.5s

Four different tests available:

- Automatic threshold
- Fixed intensity
- Growing intensity
- Manual mode

ACOUSTIC REFLEX DECAY TEST

Ipsilateral and contralateral stimulation

Non-acoustic stimulation

Test duration: 10 sec or 20 sec (selectable)

ACOUSTIC REFLEX LATENCY TEST

Ipsilateral and contralateral stimulation

Stimulus ON-Time: selectable from 0.3s to 1.7s

Stimulus OFF-Time: selectable from 0.3s to 1.7s

ON-Rate and OFF-Rate measurement: rate of the acoustic reflex slopes

EUSTACHIAN TUBE FUNCTION TEST

ETF with TM intact: Williams test

ETF with perforated TM: Toynbee test, with customizable duration and pressure range

QUICK TESTS

Two user programmable Quick tests available

Each test consists of a sequence of

- Tympanometry
- Reflex test (Fixed intensity or Automatic threshold, with user defined parameters)

AVAILABLE STIMULI AND MAXIMUM LEVELS

Attenuator step: 1, 2 and 5 dB

Stimulus	IPSI (dB HL)	CONTRA TDH39 headphone (dB HL)	CONTRA IME-100 earphone (dB HL)
250 Hz	-	100	100
500 Hz	100	120	110
1,000 Hz	110	120	115
2,000 Hz	105	120	110
3,000 Hz	105	120	110
4,000 Hz	100	120	110
6,000 Hz	100	105	100
8,000 Hz	-	100	-
BBN	95	115	105
LPN	95	115	105
HPN	95	115	105

PRINTER

Optional integrated thermal printer

Paper size: 112 mm

CALIBRATION

Validity: 12 months

All the parameters set through the device software

COMPUTER INTERFACE

Connection: USB (driverless)

Compatible software: Inventis Maestro

DISPLAY

Type: Graphical color TFT LCD
 Size: diagonal 7", 150 mm x 90 mm
 Resolution: 800 x 480
 Resistive touch screen

POWER SUPPLY

Without integrated printer:

Main Unit: 6V, 1.67A dc.
 External Adapter: Medical grade 100-240 Vac 50/60 Hz 0.9-0.34A

With integrated printer:

Main Unit: 6V, 3.6A dc.
 External Adapter: Medical grade 100-240 Vac 50/60 Hz 0.9-0.34A

MECHANICS

Without integrated printer:

Size (WxDxH): 32 x 32 x 15 cm / 12.6 x 12.6 x 5.9 in
 Weight: 2.0 Kg / 4.4lbs

With integrated printer:

Size (WxDxH): 32 x 39 x 15 cm / 12.6 x 15.4 x 5.9 in
 Weight: 2.5 Kg / 5.5lbs

FREIGHT PACKING

Size (WxDxH): 47 x 42 x 35 cm / 18.5 x 15.8 x 13.8 in
 Gross weight (without printer): 4.4 Kg / 9.7lbs
 Gross weight (with printer): 4.9 Kg / 10.8lbs

APPLICABLE STANDARDS

Impedance: EN 60645-5 / ANSI S3.39, Type 1
 Electrical safety: EN 60601-1
 EMC: EN 60601-1-2

CE CERTIFICATE

93/42/EEC classification: Class IIa
 Classification rule (Annex IX, 93/42/EEC): 10
 Notified body: TÜV SÜD Product Service GmbH [0123]

PRODUCT CODES

10517: Clarinet model Basic
 10518: Clarinet model Basic – With integrated thermal printer
 10542: Clarinet model Plus
 10543: Clarinet model Plus – With integrated thermal printer

INCLUDED PARTS

- Control unit with probe
- Shoulder strap for probe control box
- Wrist strap for probe control box
- Single TDH-39 contralateral headset
- Calibration cavities
- Assorted ear tips box
- Plastic cover sheet
- Medical grade power supply
- USB connection cable
- User manual

- Inventis Software Suite

OPTIONAL ACCESSORIES (with order code)

- 10342: Insert earphone for contra reflex testing
- 10293: Thermal paper for printer (box of 5)
- 10182: Soft carrying case
- 10541: Trolley for audiometers / tympanometers

DISPOSABLES (with order code)

- 10488: White tips (diam. 6 mm) – Set of 30
- 10489: Pink tips (diam. 7 mm) – Set of 30
- 10490: Violet tips (diam. 8 mm) – Set of 30
- 10491: Green tips (diam. 10 mm) – Set of 30
- 10492: Red tips (diam. 12 mm) – Set of 30
- 10493: Blue tips (diam. 14 mm) – Set of 30
- 10494: Orange tips (diam. 16 mm) – Set of 30
- 10495: Light blue tips (diam. 18 mm) – Set of 30
- 10496: Yellow tips (diam. 21 mm) – Set of 30
- 10511: Box with assorted tips – Set of 160
- 10554: Cleaning brushes for the tympanometers probe

Clarinet is developed by:

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