



SA 203™

DIAGNOSTIC AUDIOMETER



SA 203 is a manual / automatic, true two-channel, diagnostic audiometer with full frequency and output range for pure-tone air, bone conduction and synchronized masking possibilities. Its patented digital design and RoHS compatibility makes it well adapted to the modern, environmentally aware user. SA 203 is user friendly, robust, reliable and yet its light-weight design makes it ideal for frequent field use. Built-in talk forward microphone for convenient communication.

SA 203 stores up to 50 audiograms, with date and subject identification, allowing for hard copy prints and/or transfer to a computer at any time. Calibrates to a range of selected audiometric air conduction earphones and bone conduction vibrator. Free-field system is optional. SA 203 is NOAH-compatible when using Entomed Audi-Link 1.00 for NOAH 3.

SA 203 is ideal for hearing threshold and diagnostic determination, designed for frequent practise and portable field use.

Function

SA 203 is a manual/automatic pure-tone and bone conduction diagnostic audiometer with narrow band masking possibilities. The SA 203 has a set-up menu, which allows the audiometer to be programmed according to individual needs.

50 audiograms together with date, time and personal identification can be stored in the internal memory.

Each audiogram can be displayed, transferred to a computer and/or external printer at any time. Built-in microphone for convenient communication with the test subject.

Free field speaker system is optional.

SA 203 calibrates to TDH39/DD45/HDA200 earphones, ER-5A insert earphones and Radioear B71 bone vibrator.

Signal format

Single pulse (1.3 sec duration)

Continuous pure-tone when button is maintained active

Pulsing (2.5 pulse/sec)

Frequency modulation ($\pm 5\%$)

Special Capabilities

Built-in talk forward microphone with volume control

Internal memory - stores up to 50 complete audiograms in non-volatile memory

Synchronized Masking - The level of masking will automatically track with the stimulus level

Hard copy print-outs to any PCL 5 printer, via optional SA 07 printer interface cable

Computer interface, via optional RS 232 computer cable

RS 232 interface

Transfer possibilities to NOAH 3 when using Entomed Audi-Link 1.00 for NOAH 3

Dimensions

Width* Height* Depth: 376* 73* 264 (mm)

Weight: 1.5 kg

Power supply: 110 V - 240 V, 50 - 60 Hz

Frequency Range

Maximum Levels Manual/Automatic mode

Hz	Minimum is -10 dB	Minimum is -10 dB	Minimum is 0 dB
125	80/80 dB	-	80/- dB
250	100/100 dB	45/45 dB	80/- dB
500	120/110 dB	60/60 dB	100/- dB
750	120/110 dB	60/60 dB	100/- dB
1000	120/110 dB	70/70 dB	100/- dB
1500	120/110 dB	70/70 dB	100/- dB
2000	120/110 dB	70/70 dB	100/- dB
3000	120/110 dB	70/70 dB	100/- dB
4000	120/110 dB	70/70 dB	100/- dB
6000	110/110 dB	60/60 dB	100/- dB
8000	110/100 dB	60/60 dB	90/- dB

Air
Conduction

Bone
Conduction

Narrow Band
Noise

Accuracy $\pm 1\%$

Total Harmonic Distortion
< 2% earphones
< 5% bone conductor

Manufactured by:
Auditdata A/S
Dalbergstrøget 5-7
DK-2630 Taastrup, Denmark

TecDoc145 Rev 14.



Entomed SA 20X-IV generation audiometric systems complies with the European RoHS-Directive 2002/95/EC when choosing DD45, HDA 200 and/or ER-5A

Ordering Information

EN 104034 - SA 203 w DD45 supra-aural phones

EN 104035 - SA 203 w DD45 w Audiocups noise attn. cups

EN 104032 - SA 203 w ER-5A insert phones

EN 104030 - SA 203 w TDH39 supra-aural phones

Standard Accessories Supplied

EN 200060 - Subject response switch

EN 200000 - Radioear B71 bone vibrator

EN 560128 - External medical grade power supply

EN 550xxx - Mains cord, country specific - specify in order

EN 9700xx - User manual, language - specify in order

EN 500191 - Soft carrying case

Optional Accessories

EN 200190 - DD45 - supra-aural

EN 100360 - ER-5A - insert

EN 200170 - TDH39 - supra-aural

EN 370180 - Audiocups noise attention headset

EN 200907 - SA 07 Printer interface cable

EN 200235 - RS 232 computer cable

EN 200236 - USB/RS232 adapter

EN 200700 - Free field speaker system

EN 101181 - Audimax II+ software for PC

EN 200920 - Entomed Audi-Link 1.00 for NOAH 3

Standards

The SA 203 is a manual/automatic IEC 60645-1 Type 3 pure-tone and bone conduction diagnostic audiometer and meets or exceeds the following standards: IEC 60645-1; ISO 389-1; ISO 389-2; ISO 389-3; ISO 389-4; ISO 8253-1; ISO 8253-2;

IEC 60601-1 Medical Electrical Equipment Requirements for Safety and Performance

IEC 60601-1-2 Medical Electrical Equipment Requirements for EMC Compatibility

Specifications are subject to change without notice.



The Entomed SA 20X-IV generation audiometers are based upon a patented digital design. The RoHS compatibility makes them well adapted to the modern, environmentally aware user. All products in the SA 20X-series are user friendly, robust, reliable and yet of a light-weight design ideal for frequent field use. The Entomed SA 20X-series covers user needs from basic screening capabilities to advanced diagnostic clinical needs required by audiologists dispensing hearing aids.

SA 201™ - Screening Audiometer

SA 202™ - Screening Audiometer

SA 203™ - Diagnostic Audiometer

SA 204™ - Diagnostic Audiometer

The SA 20X-IV generation is replacing the previous SA 20X-II platform, also sold under the GSI 66, GSI 67 and GSI 68 brand names.

For further inquiries do please visit Entomed website or contact your local dealer.



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