

# Entomed



# SA 204<sup>TM</sup>

## SCREENING AUDIOMETER

## Datasheet

SA 204 is a manual/automatic pure tone, bone conduction, and speech testing diagnostic audiometer with narrow band and speech noise masking possibilities. Its patented digital design and RoHS compatibility makes it well adapted to the modern and environmentally aware user. SA 204 is user friendly, robust, and reliable; yet its light-weight design makes it ideal for frequent field use. Built-in talk forward microphone is for convenient communication with the test subject.

SA 204 has a set-up menu for programming according to individual needs. In addition, it stores up to 50 audiograms with date, time, and personal identification, allowing for hard copy prints and/or transfer to a computer at any time. The audiometer is as standard equipped with a monitor headset and a talkback microphone for optimal communication with the test subject. Live Speech Monitor Headset is optional. SA 204 calibrates to TDH39/DD45/DD65v2 earphones, and Radioear B71 bone vibrator.

**Auditdata**

## 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

<b>Headsets</b>	EN 200190 - DD45	Supra-aural
	EN 200170 - TDH-39	Supra-aural
	EN 200210 - DD65v2	Circum-aural
	EN 200000 - B71	Bone vibrator
<b>Standard accessories</b>	EN 200060	Subject response switch
	EN 560128	External medical grade power supply
	EN 550xxx	Mains cord, country specific (specify in order)
	EN 500191	Soft carrying case
<b>Optional accessories</b>	EN 370159	Monitor headset
	EN 370156	Talk back microphone
	EN 370155	Live speech/monitor headset
	EN 200907	SA 07 Printer interface cable
	EN 200235	RS 232 computer cable
	EN 200236	USB/RS232 adapter

<b>Signal format</b>	Single pulse	1.3 sec duration
	Continuous pure tone	When maintaining button active
	Pulsing	2.5 pulse/sec
	Frequency modulation	± 5 %
<b>Dimensions</b>	Width x height x depth	376 x 73 x 264 (mm)
	Weight	1.5 kg
	Power supply	110 V - 240 V, 50 - 60 Hz
<b>Ordering information</b>	EN 100214	Entomed SA204 screening audiometer, English
	EN 100224	Entomed SA204 screening audiometer, Spanish
<b>Standards</b> The SA 204 is a manual/automatic IEC 60645-1 Type 3 pure tone and bone conduction diagnostic audiometer that meets or exceeds the following standards:	IEC 60645-1:2017	Pure tone and Speech audiometry
	IEC 60601-1/A1:2012	Medical, General Safety Requirements
	IEC 60601-1-2:2014	Medical, Electromagnetic Compatibility

## Frequency range (Maximum levels; manual/automatic mode)

Total Harmonic Distortion Accuracy ± 1 %  
< 2 % earphones < 5 % bone conductor

Hz	Air conduction (min. -10 dB)	Bone conduction (min. -10 dB)	Narrow band noise (min. 0 dB)
125	80/80 dB	-	80/- dB
250	100/100 dB	45/45 dB	80/- dB
500-750	120/110 dB	60/60 dB	100/- dB
1000-4000	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
<b>Speech (min is -10 dB)</b>	<b>Air conduction</b>	<b>Bone conduction</b>	<b>Speech Noise</b>
	120 dB SPL	80 dB	100 dB

\* Specifications are subject to change without notice.

# Entomed

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Entomed SA 20X-IV generation audiometric systems complies with EU Directive 2011/65/EU and EU Directive 2015/863/EU

The Entomed SA 20X-IV generation audiometers are based on a patented digital design. The RoHS compatibility makes them well adapted to a 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.