



Essential Facts

- 8 signal processing channels
- 4 gain handles
- 4 hearing programs

Hardware

- 312 battery
- Push button
- SecureTec Protection (IP67 Rating)

Speech

- Feedback Preventer (Standard Functionality)
- Fixed Directional Microphone (Standard Functionality)

Sound Comfort and Convenience

Noise Management (Basic Functionality)

Automatic Optimization

- Automatic Classifier (Basic Functionality)
- Data Logging (Standard Functionality)

Accessories

· Smart Remote App

XTM S P4

Data Sheet

http://www.am-hearing.com





Essential Facts

- 8 signal processing channels
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- 13 battery
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- Rocker Switch
- Telecoil
- Direct audio input via exchangeable battery door

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XTM P P4

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XTM XP P4

Data Sheet

http://www.am-hearing.com

XTM S P4 | Technical Data

Туре

Output sound pressure level
at 1.6 kHz
Peak
HFA-OSPL 90
Gain
Full on gain (FOG) at 1.6 kHz
Full on gain (Peak)
HFA-FOG
Reference test gain
Frequency, noise and directivity
Frequency range
Equivalent input noise
Total harmonic distortion at 500 / 800 / 1600 Hz
Broadband tinnitus function
AI-DI
Inductive coil sensitivity
MASL (1 mA/m) at 1.6 kHz
HFA MASL (1 mA/m)
HFA SPLITS (left/right)
RSETS (left/right)
Battery
Battery voltage
Battery current drain
Battery life (cell zinc air)
Battery life (rechargeable)
IRIL IEC 118-13:2011 (bystander)
800-960 MHz
1400-2000 MHz
ANSI C63.19



2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
-	129 dB SPL	_	116 dB SPL
124 dB SPL	132 dB SPL	124 dB SPL	125 dB SPL
121 dB SPL	_	113 dB SPL	_
_	49 dB	_	48 dB
55 dB	62 dB	45 dB	53 dB
42 dB	_	41 dB	-
42 dB	42 dB	36 dB	41 dB
100-7100 Hz	1000-7100 Hz	100-7100 Hz	280-7100 Hz
20 dB SPL	23 dB SPL	15 dB SPL	15 dB SPL
2/1/1%	2/1/1%	1/1/2%	1/1/2%
_	_	_	_
3.5 dB		3.5	dB
_	_	_	_
	_	_	_
	_	_	_
_	_	_	_
	3 V	1.3 V	
0.9 mA		0.9 mA	
~125 h		~125 h	
_		-	
<-10 dB SPL			B SPL
<-10 dB SPL			B SPL
M3		N	13

XTM P P4 | Technical Data

Туре

Earhook undamped



Output sound pressure level
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Battery voltage
Battery current drain
Battery life (cell zinc air)
Battery life (rechargeable)
IRIL IEC 118-13:2011 (bystander)
800-960 MHz
4400 0000 MILE
1400-2000 MHz

2 ccm coupler	Ear simulator			
-	133 dB SPL			
134 dB SPL	138 dB SPL			
127 dB SPL	_			
-	69 dB			
70 dB	75 dB			
64 dB	-			
50 dB	58 dB			
110-6000 Hz	170-6700 Hz			
24 dB SPL	24 dB SPL			
3/2/1%	4 / 4 / 1 %			
_	_			
3.5	dB			
_	97 dB SPL			
93 dB SPL	_			
110 / 107 dB SPL	_			
0 / -3 dB	_			
1.3	3 V			
1.4	mA			
~16	60 h			
	-			
<-35 c	IB SPL			
<-24 dB SPL				
M3	/ T3			

XTM XP P4 | Technical Data

Туре

Earhook undamped

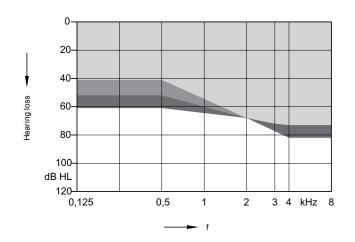


Output sound pressure level
at 1.6 kHz
HFA-OSPL 90
Gain
Full on gain (FOG) at 1.6 kHz
Full on gain (Peak) HFA-FOG
Reference test gain
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Battery voltage
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Battery current drain Battery life (cell zinc air)
Battery life (cell zinc air) Battery life (rechargeable)
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Battery life (cell zinc air) Battery life (rechargeable) IRIL IEC 118-13:2011 (bystander)

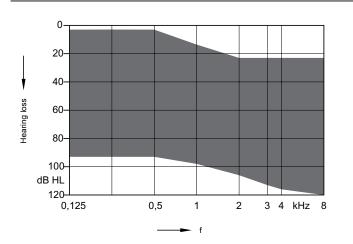
2 ccm coupler	Ear simulator			
-	139 dB SPL			
140 dB SPL	144 dB SPL			
133 dB SPL	-			
-	76 dB			
80 dB	84 dB			
72 dB –				
56 dB	64 dB			
100-5400 Hz	100-5700 Hz			
24 dB SPL	26 dB SPL			
3/2/1%	7/3/2%			
_	-			
3.6	dB			
	107 dB SPL			
102 dB SPL	-			
115 / 112 dB SPL	_			
-1 / -4 dB	_			
1.:	3 V			
2.4	mA			
~16	60 h			
	-			
<-34 c	IB SPL			
<-34 dB SPL				
M3	/ T4			

Fitting Range





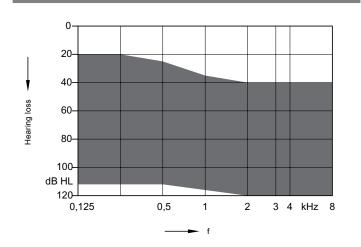
XTM P P4





Earhook undamped

XTM XP P4



Earhook undamped

XTM S P4 (Earhook damped) | Basic Data

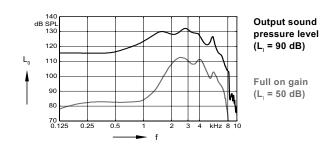
2 ccm coupler

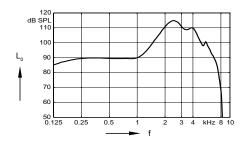
130 dB SPL 120 110 90 90 0.125 0.25 0.5 1 2 3 4 kHz 8 10

Output sound pressure level (L_| = 90 dB)

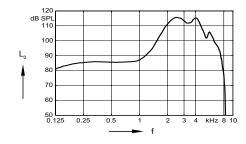
Full on gain (L_| = 50 dB)

Ear simulator





Frequency response (L₁ = 60 dB)



Basic acoustic response (L_i = 60 dB)

XTM S P4 (ThinTube) | Basic Data

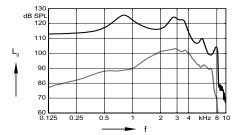
2 ccm coupler

130 dB SPL 120 110 0 100 90 80 70 60 0.125 0.25 0.5 1 2 3 4 kHz 8 10

Output sound pressure level (L_i = 90 dB)

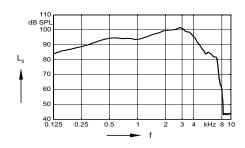
Full on gain (L_i = 50 dB)

Ear simulator

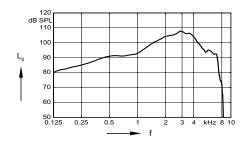


Output sound pressure level (L_| = 90 dB)

Full on gain (L_i = 50 dB)



Frequency response (L₁ = 60 dB)



Basic acoustic response (L_i = 60 dB)

XTM P P4 (Earhook undamped) | Basic Data

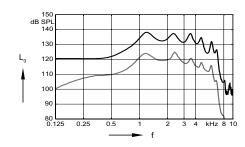
2 ccm coupler

140 dB SPL 130 110 90 80 70 0.125 0.25 0.5 1 2 3 4 kHz 8 10

Output sound pressure level (L_| = 90 dB)

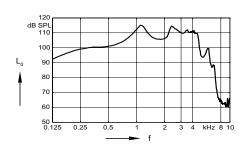
Full on gain (L_i = 50 dB)

Ear simulator

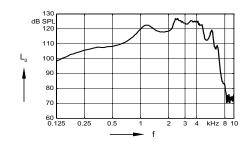


Output sound pressure level (L, = 90 dB)

Full on gain (L_i = 50 dB)

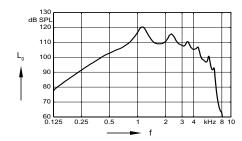


Frequency response (L₁ = 60 dB)

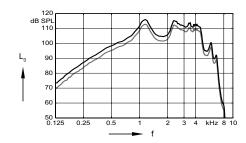


Basic acoustic response (L_i = 60 dB)

Inductive response



Inductive response (H = 10 mA/m)



SPLITS curve left (H = 31.6 mA/m)

SPLITS curve right (H = 31.6 mA/m)

XTM XP P4 (Earhook undamped) | Basic Data

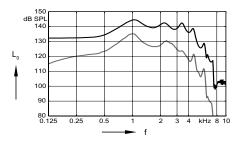
2 ccm coupler

150 dB SPL 140 130 120 110 90 80 0.125 0.25 0.5 1 2 3 4 kHz 8 10

Output sound pressure level (L_i = 90 dB)

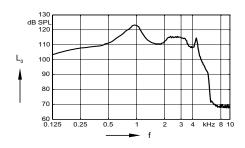
Full on gain (L_i = 50 dB)

Ear simulator

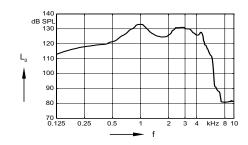


Output sound pressure level (L, = 90 dB)

Full on gain (L_i = 50 dB)

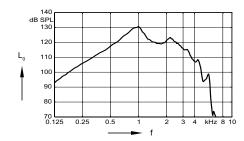


Frequency response (L₁ = 60 dB)

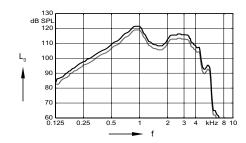


Basic acoustic response (L_| = 60 dB)

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SPLITS curve left (H = 31.6 mA/m)

SPLITS curve right (H = 31.6 mA/m)

Notes	

XTM S / P / XP P4

Abbreviations and Standards

Abbreviations

The following abbreviations are used in this datasheet:

OSPL Output Sound Pressure Level High Frequency Average **HFA**

Full-On Gain **FOG**

MASL Magneto Acoustical Sensitivity Level

SPLITS Coupler SPL for an Inductive Telephone Simulator

RSETS Relative Equivalent Telephone Sensitivity Articulation Index - Directivity Index AI-DI **IRIL** Input Related Interference Level **RTF** Reference Test Frequency

Standards

- ▶ All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2009 and IEC 60118-7:2005 if applicable.
- ▶ All measurements with an ear simulator were performed according to IEC 118-0/A1 and to DIN 45605 (frequency range) if applicable.
- ▶ Tinnitus function measurement conditions: all tinnitus single frequency sliders in max position, master volume slider in default position (0 dB) and local volume control in default position.
- ▶ The following ear pieces were used:
 - Farhook
 - ThinTube

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases and are subject to change without

cases and are subject to change without prior notice. The required features should therefore be specified in each individual case at the time of conclusion of the respective contract.



🚹 WARNING

Choking hazard posed by small parts.

This instrument is not intended for the fitting of infants, children under 3 years and persons of mental incapacity.



WARNING

Instrument has an output sound pressure level of 132 dB SPL or more. Risk of impairing the residual hearing of the user.

Take special care when fitting this instrument.