



Technical Data

Motion micon™

7mi

5mi

Motion SX micon

Earhook damped

- 67 dB / 137 dB SPL (ear simulator)
- 60 dB / 130 dB SPL (2 ccm coupler)

LifeTube

- 61 dB / 129 dB SPL (ear simulator)
- 53 dB / 125 dB SPL (2 ccm coupler)

Motion M micon

Earhook damped

- 73 dB / 137 dB SPL (ear simulator)
- 65 dB / 130 dB SPL (2 ccm coupler)

LifeTube

- 63 dB / 127 dB SPL (ear simulator)
- 60 dB / 124 dB SPL (2 ccm coupler)

Motion PX/P micon

Earhook damped

- 77 dB / 137 dB SPL (ear simulator)
- 70 dB / 131 dB SPL (2 ccm coupler)

Earhook undamped

- 79 dB / 140 dB SPL (ear simulator)
- 75 dB / 135 dB SPL (2 ccm coupler)

LifeTube



- 68 dB / 130 dB SPL (ear simulator)
- 65 dB / 127 dB SPL (2 ccm coupler)

Key Features



- Flexible and fully featured hearing instrument family
- From mild to severe hearing loss
- micon BestSound™ Technology

Data Sheet



Motion SX micon · Technical Data

Type	Earhook damped		LifeTube	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
at 1.6 kHz	–	134 dB SPL	–	121 dB SPL
Peak	130 dB SPL	137 dB SPL	125 dB SPL	129 dB SPL
HFA-OSPL 90	126 dB SPL	–	116 dB SPL	–
Gain				
Full-on gain (FOG) at 1.6 kHz	–	61 dB	–	54 dB
Full-on gain (Peak)	60 dB	67 dB	53 dB	61 dB
HFA-FOG	53 dB	–	46 dB	–
Reference test gain	49 dB	55 dB	39 dB	44 dB
Frequency, noise and directivity				
Frequency range 7mi 5mi	100 - 6700 Hz 100 - 6700 Hz	500 - 7000 Hz 500 - 7000 Hz	100 - 6700 Hz 100 - 6700 Hz	100 - 9000 Hz 100 - 7800 Hz
Equivalent input noise	17 dB	17 dB	19 dB	19 dB
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 2 / 1 %	2 / 2 / 1 %	1 / 1 / 2 %	1 / 1 / 3 %
AI-DI	3.5 dB		3.5 dB	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	91 dB	–	82 dB
HFA MASL (1 mA/m)	83 dB	–	74 dB	–
HFA SPLITS (left/right)	103 / 106 dB	–	93 / 95 dB	–
RSETS (left/right)	-6 / -3 dB	–	-6 / -4 dB	–
AGC-O (fully activated)				
Attack / release Time	3 / 90 ms	–	3 / 90 ms	–
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	1.0 mA		1.0 mA	
Battery life (cell zinc air)	~ 220 h		~ 220 h	
Battery life (rechargeable)	>16 h		>16 h	
IRIL IEC 118-13:2011 (bystander)				
800 - 960 MHz	< -25 dB SPL		< -25 dB SPL	
1400 - 2000 MHz	< -20 dB SPL		< -20 dB SPL	
ANSI C63.19	M4 / T2		M4 / T2	

Motion M micon · Technical Data

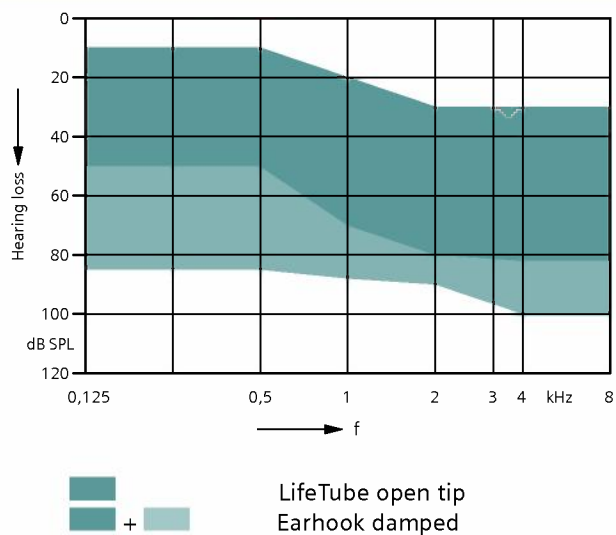
Type	Earhook damped		LifeTube	
				
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level				
at 1.6 kHz	–	130 dB SPL	–	116 dB SPL
Peak	130 dB SPL	137 dB SPL	124 dB SPL	127 dB SPL
HFA-OSPL 90	124 dB SPL	–	111 dB SPL	–
Gain				
Full-on gain (FOG) at 1.6 kHz	–	63 dB	–	56 dB
Full-on gain (Peak)	65 dB	73 dB	60 dB	63 dB
HFA-FOG	57 dB	–	49 dB	–
Reference test gain	47 dB	55 dB	34 dB	40 dB
Frequency, noise and directivity				
Frequency range 7mi 5mi	100 - 7500 Hz 100 - 7500 Hz	150 - 8000 Hz 150 - 8000 Hz	100 - 7600 Hz 100 - 7600 Hz	100 - 8000 Hz 100 - 8000 Hz
Equivalent input noise	19 dB	20 dB	23 dB	23 dB
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 2 / 1 %	2 / 2 / 1 %	1 / 1 / 1 %	1 / 1 / 2 %
AI-DI	4.0 dB		4.0 dB	
Inductive coil sensitivity				
MASL (1 mA/m) at 1.6 kHz	–	93 dB	–	84 dB
HFA MASL (1 mA/m)	87 dB	–	77 dB	–
HFA SPLITS (left/right)	106 / 106 dB	–	91 / 91 dB	–
RSETS (left/right)	-1 / -1 dB	–	-3 / -3 dB	–
AGC-O (fully activated)				
Attack / release Time	3 / 90 ms	–	3 / 90 ms	–
Battery				
Battery voltage	1.3 V		1.3 V	
Battery current drain	1.1 mA		1.1 mA	
Battery life (cell zinc air)	~ 200 h		~ 200 h	
Battery life (rechargeable)	–		–	
IRIL IEC 118-13:2011 (bystander)				
800 - 960 MHz	< -48 dB SPL		< -48 dB SPL	
1400 - 2000 MHz	< -17 dB SPL		< -17 dB SPL	
ANSI C63.19	M4 / T4		M4 / T4	

Motion P / PX micon · Technical Data

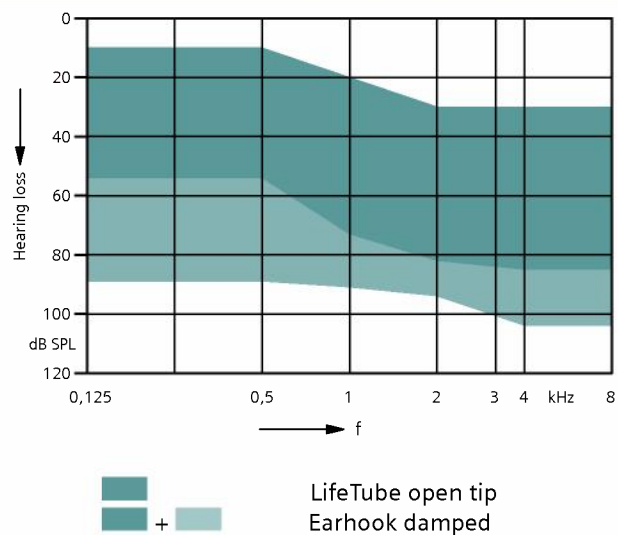
Type	Earhook damped		Earhook undamped		LifeTube	
						
	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator	2 ccm coupler	Ear simulator
Output sound pressure level						
at 1.6 kHz	–	128 dB SPL	–	130 dB SPL	–	117 dB SPL
Peak	131 dB SPL	137 dB SPL	135 dB SPL	140 dB SPL	127 dB SPL	130 dB SPL
HFA-OSPL 90	124 dB SPL	–	129 dB SPL	–	114 dB SPL	–
Gain						
Full-on gain (FOG) at 1.6 kHz	–	65 dB	–	71 dB	–	55 dB
Full-on gain (Peak)	70 dB	77 dB	75 dB	79 dB	65 dB	68 dB
HFA-FOG	62 dB	–	66 dB	–	49 dB	–
Reference test gain	48 dB	54 dB	52 dB	56 dB	37 dB	42 dB
Frequency, noise and directivity						
Frequency range 7mi 5mi	100 - 7000 Hz 100 - 7000 Hz	130 - 7200 Hz 130 - 7200 Hz	100 - 6000 Hz 100 - 6000 Hz	170 - 6700 Hz 170 - 6700 Hz	100 - 5500 Hz 100 - 5500 Hz	100 - 6000 Hz 100 - 6000 Hz
Equivalent input noise	19 dB	19 dB	19 dB	19 dB	27 dB	30 dB
Total harmonic distortion at 500 / 800 / 1600 Hz	2 / 2 / 1 %	2 / 2 / 1 %	3 / 2 / 1 %	3 / 2 / 1 %	1 / 1 / 1 %	1 / 1 / 2 %
AI-DI	4.0 dB		4.0 dB		4.0 dB	
Inductive coil sensitivity						
MASL (1 mA/m) at 1.6 kHz	–	98 dB	–	100 dB	–	88 dB
HFA MASL (1 mA/m)	93 dB	–	98 dB	–	81 dB	–
HFA SPLITS (left/right)	108 / 108 dB	–	114 / 114 dB	–	98 / 98 dB	–
RSETS (left/right)	0 / 0 dB	–	2 / 2 dB	–	1 / 1 dB	–
AGC-O (fully activated)						
Attack / release Time	3 / 90 ms	–	3 / 90 ms	–	3 / 90 ms	–
Battery						
Battery voltage	1.3 V		1.3 V		1.3 V	
Battery current drain	1.1 mA		1.3 mA		1.2 mA	
Battery life (cell zinc air)	~ 200 h		~ 170 h		~ 185 h	
Battery life (rechargeable)	>16 h		>16 h		>16 h	
IRIL IEC 118-13:2011 (bystander)						
800 - 960 MHz	< -46 dB SPL		< -46 dB SPL		< -46 dB SPL	
1400 - 2000 MHz	< -13 dB SPL		< -13 dB SPL		< -13 dB SPL	
ANSI C63.19	M4 / T4		M4 / T4		M4 / T4	

Fitting Range

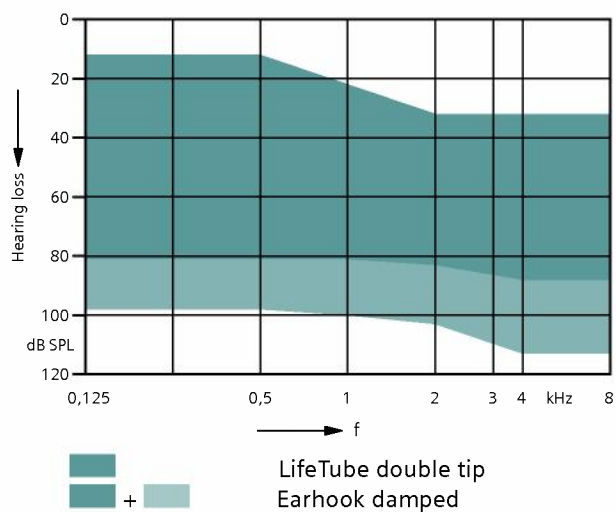
Motion SX micon



Motion M micon

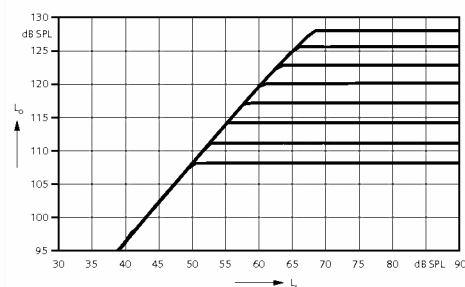
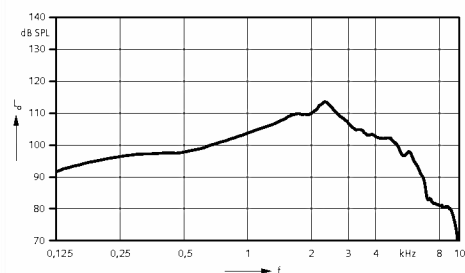
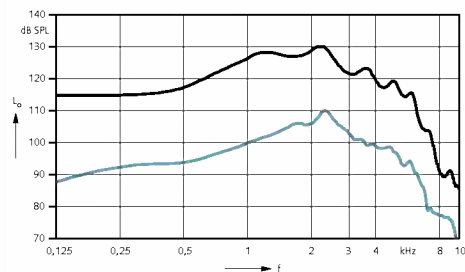


Motion P / PX micon

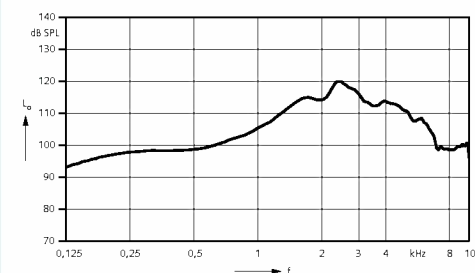
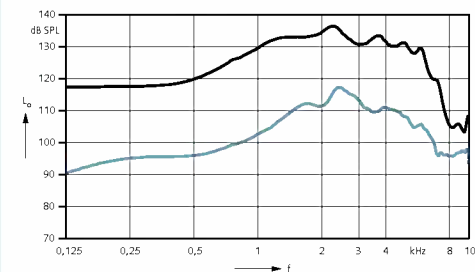


Motion SX micon (Earhook damped) · Basic Data

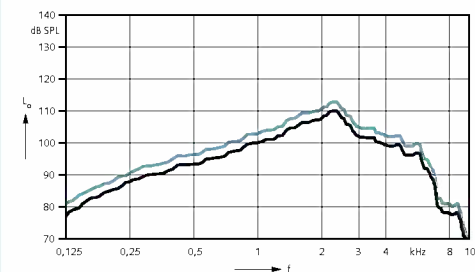
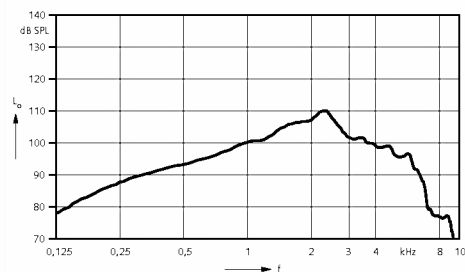
2 ccm coupler



Ear simulator

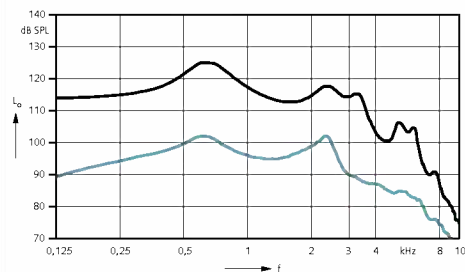


Inductive response



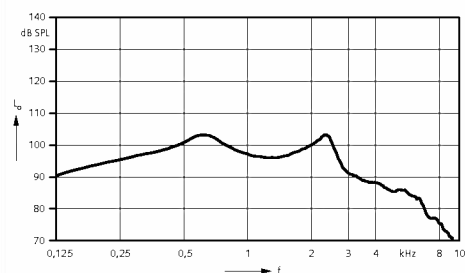
Motion SX micon (LifeTube) · Basic Data

2 ccm coupler

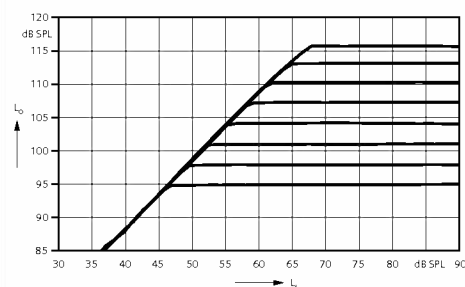


Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

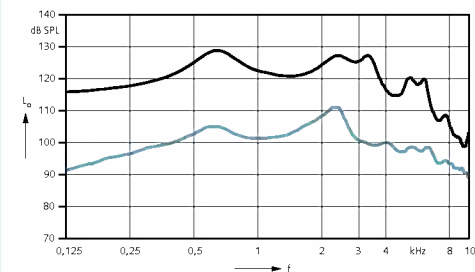


Frequency response
($L_1 = 60$ dB)



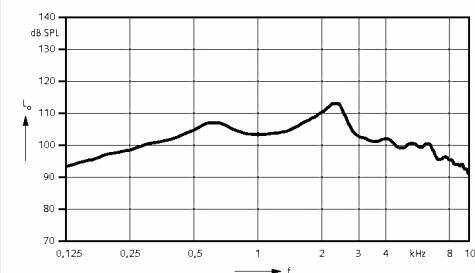
Effect of MPO
(FOG, $f = 2$ kHz)

Ear simulator



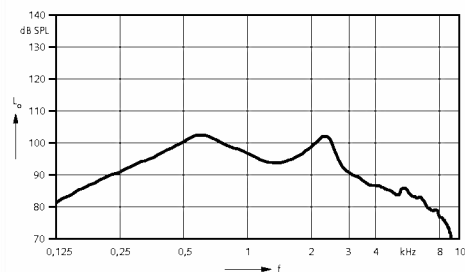
Output sound pressure level
($L_1 = 90$ dB)

Full on gain
($L_1 = 50$ dB)

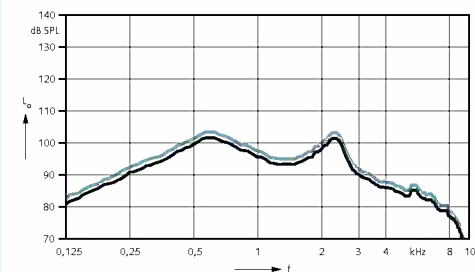


Basic acoustic response
($L_1 = 60$ dB)

Inductive response



Inductive response
($H = 10$ mA/m)

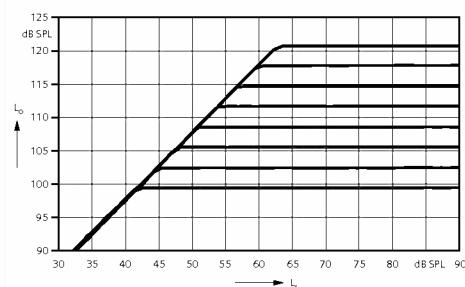
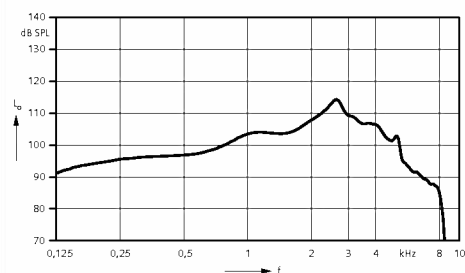
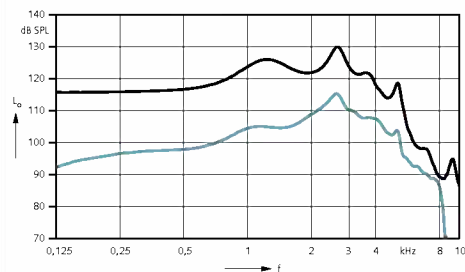


SPLITS curve left
($H = 31.6$ mA/m)

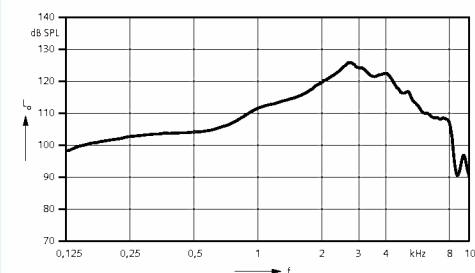
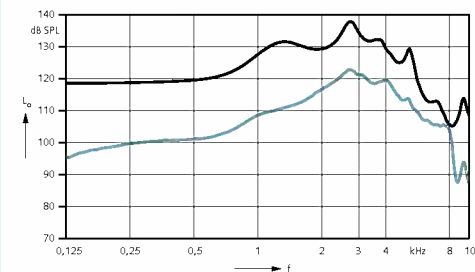
SPLITS curve right
($H = 31.6$ mA/m)

Motion M micon (Earhook damped) · Basic Data

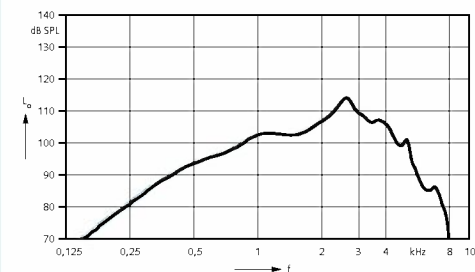
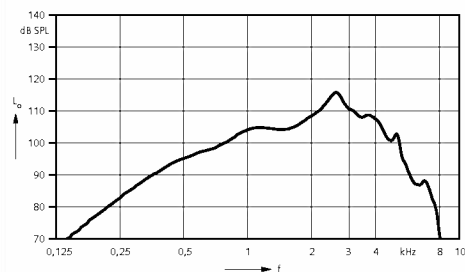
2 ccm coupler



Ear simulator



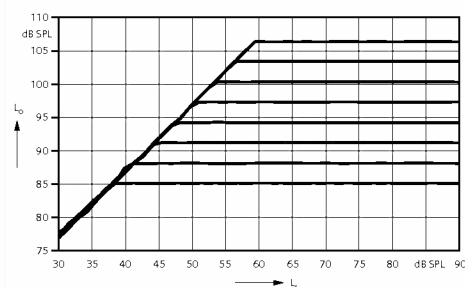
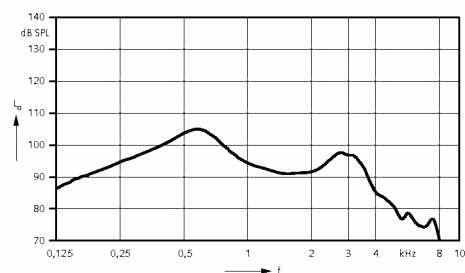
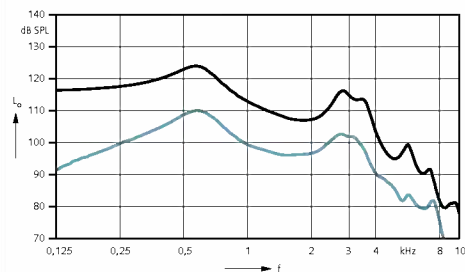
Inductive response



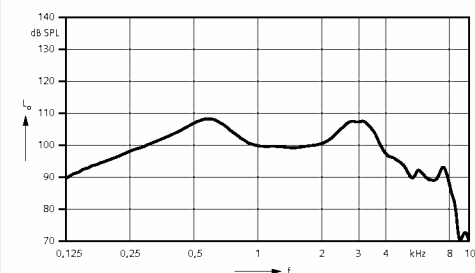
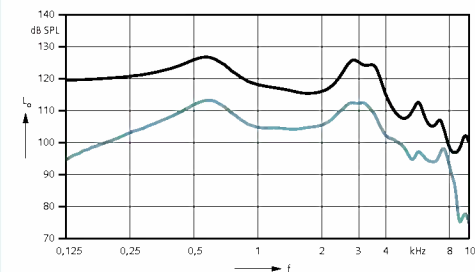
SPLITS curve right ($H = 31.6$ mA/m)

Motion M micon (LifeTube) · Basic Data

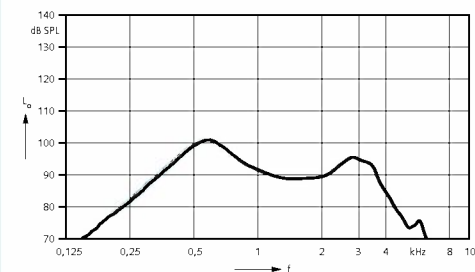
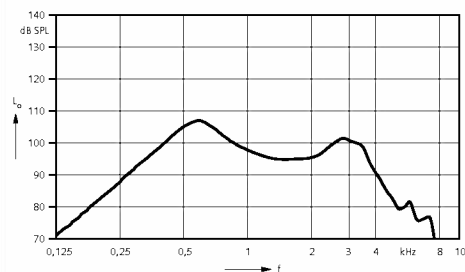
2 ccm coupler



Ear simulator



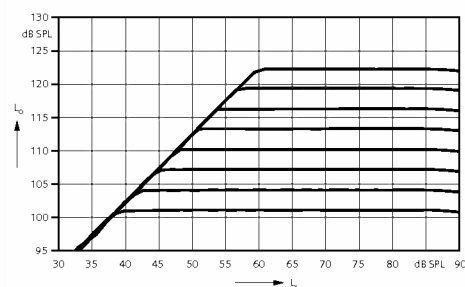
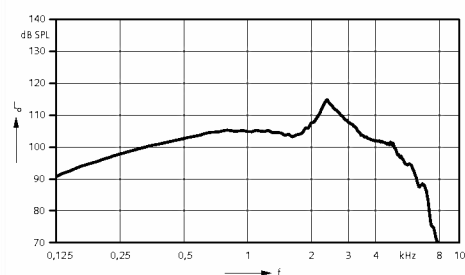
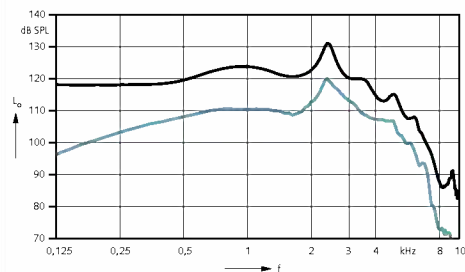
Inductive response



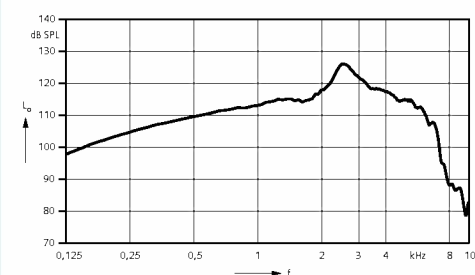
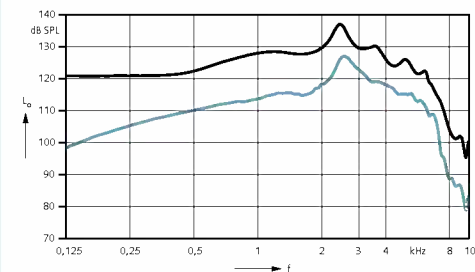
SPLITS curve right ($H = 31.6$ mA/m)

Motion P / PX micon (Earhook damped) · Basic Data

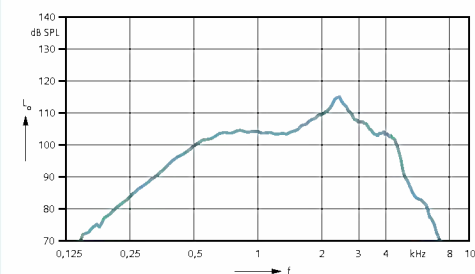
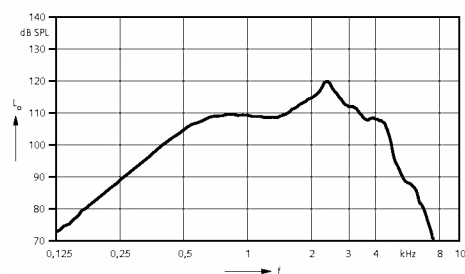
2 ccm coupler



Ear simulator

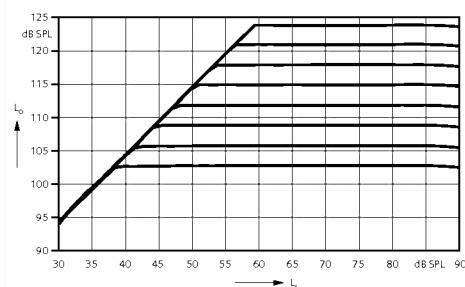
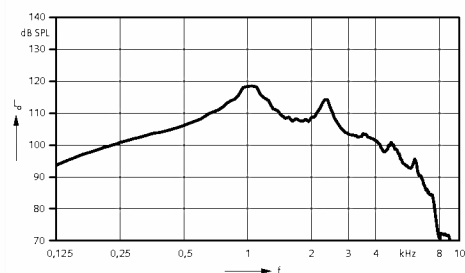
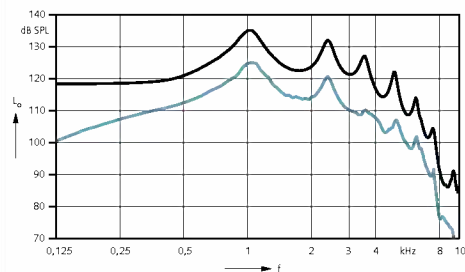


Inductive response

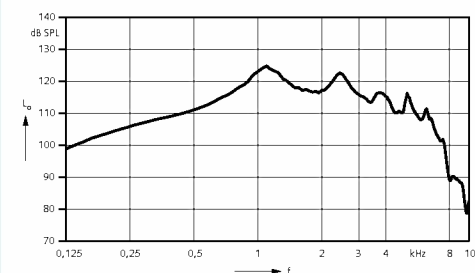
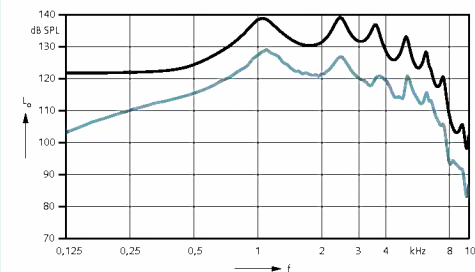


Motion P / PX micon (Earhook undamped) · Basic Data

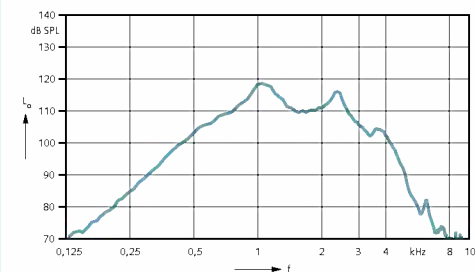
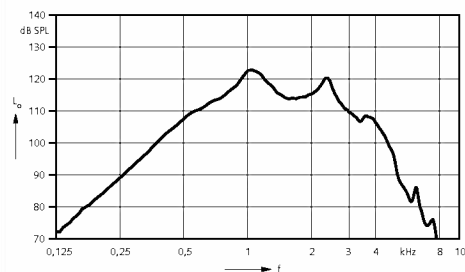
2 ccm coupler



Ear simulator

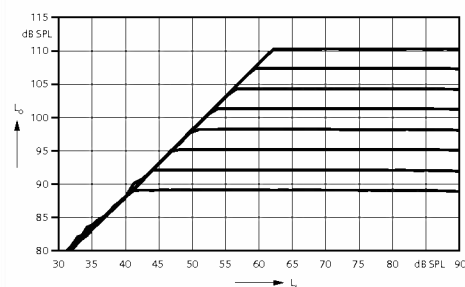
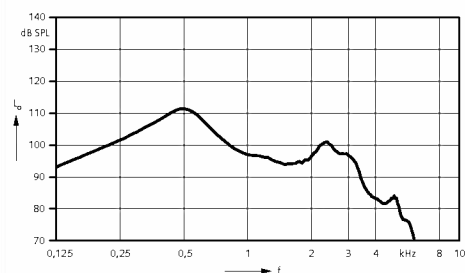
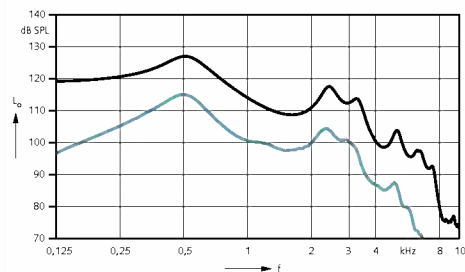


Inductive response

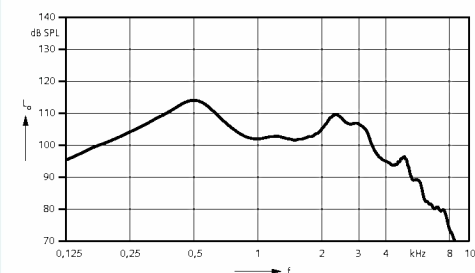
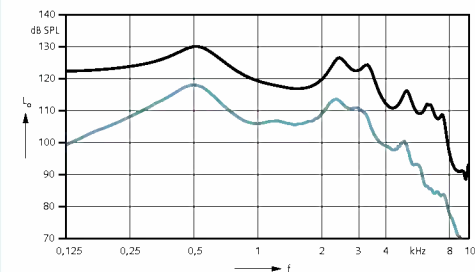


Motion P / PX micon (LifeTube) · Basic Data

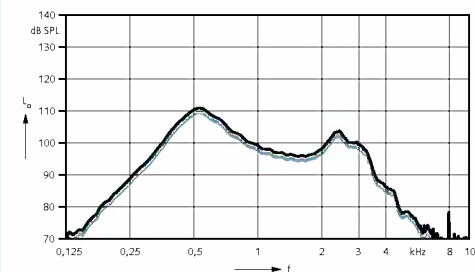
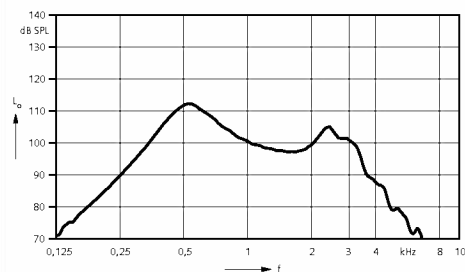
2 ccm coupler



Ear simulator



Inductive response



SPLITS curve right ($H = 31.6$ mA/m)

Features and Accessories

Audiological Features	SX		M		PX		P	
	7mi	5mi	7mi	5mi	7mi	5mi	7mi	5mi
miFocus								
High res. Adaptive TwinMic System™ (channels)	48	32	48	32	48	32	48	32
Directional speech enhancement	●	—	●	—	●	—	●	—
High res. SpeechFocus / automatic	● / ●	● / —	● / ●	● / —	● / ●	● / —	● / ●	● / —
micon TruEar™	●		●		●		●	
Frequency compression	●		●		●		●	
miSound								
Feedback cancellation	●		●		●		●	
micon speech and noise management (steps)	7	5	7	5	7	5	7	5
micon SoundSmoothing™ (steps)	3		3		3		3	
micon eWindScreen™ (steps)	3		3		3		3	
micon SoundBrilliance™ (steps)	3		3		3		3	
Tinnitus noiser (channels)	20	16	20	16	20	16	20	16
miGuide								
Sound equalizer (classes)	6	3	6	3	6	3	6	3
micon Learning (classes)	6	3	6	3	6	3	6	3
Data logging	●		●		●		●	
micon fit	●		●		●		●	
Acclimatization manager	●		●		●		●	
Basic Features								
Number of channels / handles	48 / 20	32 / 16	48 / 20	32 / 16	48 / 20	32 / 16	48 / 20	32 / 16
Extended bandwidth	●	—	●	—	●	—	●	—
T-Coil	●		●		●		●	
AutoPhone™	●		●		●		●	
Charging contacts	●		—		●		—	
Battery size	13		13		13		13	
Battery door on/off function	●		●		●		●	
Battery door lock	—		●		—		●	
Nanocoated housing	●		●		●		●	
e2e wireless™ 2.0	●		●		●		●	
Audio streaming	●		●		●		●	
User controls coupling via e2e (VC,HP)	●		●		●		●	
Wireless programming via ConnexxLink™	●		●		●		●	












Features and Accessories

User control	SX	M	PX	P
	Push button rocker switch flat cover	Rocker switch + push button	Rocker switch + push button	Rocker switch + push button
Volume change	○	●	●	●
Program change	○	●	●	●
Alert tones	●	●	●	●
Number of programs	6	6	6	6
Accessories				
Color conversion kits	●	●	●	●
Tek™	●	●	●	●
miniTek™	●	●	●	●
ProPocket™	●	●	●	●
easyPocket™	●	●	●	●
ePen™	●	●	●	●
ConnexxLink™	●	●	●	●
Programming pill	●	●	●	●
LifeTube	●	●	●	●
Standard earhook	●	●	●	●
Small earhook	●	●	●	●
Eyeglass adapter	●	●	●	●
Audioshoe	—	●	—	●



● available ○ optional — not available

Order Numbers Motion micon

Motion SX micon


Standard colours	7mi	5mi
 Beige	106 683 34	106 683 44
 Granite	108 207 26	108 208 29
 Dark Granite	106 683 35	106 683 45
 Grey	106 683 36	106 683 46
 Brown	106 683 37	106 683 47
 Black	106 683 38	106 683 48
 Silver	106 683 39	106 683 49
 Pearl White	106 683 66	106 683 67
 Golden Blonde	106 683 40	106 683 50
 Sandy Brown	106 683 41	106 683 51
 Dark champagne	106 683 42	106 683 52

Motion M micon










Standard colours	7mi	5mi
 Beige	106 688 28	106 682 80
 Granite	106 682 68	106 682 81
 Dark Granite	106 682 77	106 682 90
 Grey	106 682 69	106 682 82
 Black	106 682 71	106 682 84
 Silver	106 682 72	106 682 85
 Sandy Brown	106 682 75	106 682 88
 Candy Pink	106 682 79	106 682 92
 Galactic Blue	106 682 78	106 682 91

Order Numbers Motion micon

Motion PX micon

Standard colours	7mi	5mi
 Beige	106 741 28	106 741 18
 Granite	106 684 16	106 684 26
 Dark Granite	106 741 33	106 741 23
 Grey	106 741 34	106 741 24
 Brown	106 741 30	106 741 20
 Black	106 741 29	106 741 19
 Silver	106 741 37	106 741 27
 Pearl White	106 741 35	106 741 25
 Golden Blonde	106 741 32	106 741 22
 Sandy Brown	106 741 36	106 741 26
 Dark champagne	106 741 31	106 741 21

Motion P micon

Standard colours	7mi	5mi
 Beige	106 684 04	106 684 17
 Granite	106 684 15	106 684 28
 Dark Granite	106 684 05	106 684 18
 Grey	106 684 06	106 684 19
 Black	106 684 08	106 684 21
 Silver	106 684 09	106 684 22
 Sandy Brown	106 684 12	106 684 25
 Candy Pink	106 741 02	106 741 04
 Galactic Blue	106 741 03	106 741 05

Service Parts

LifeTubes (Motion SX micon)



LifeTube 1L	102 969 44
LifeTube 2L	102 969 46
LifeTube 3L	102 969 48
LifeTube 4L	102 969 50
LifeTube 5L	102 969 52
LifeTube 6L	102 969 54

10 pcs

LifeTube 1R	102 969 45
LifeTube 2R	102 969 47
LifeTube 3R	102 969 49
LifeTube 4R	102 969 51
LifeTube 5R	102 969 53
LifeTube 6R	102 969 55

10 pcs

S-LifeTubes (Motion M, PX, P micon)



S-LifeTube 1L	102 970 10
S-LifeTube 2L	102 970 12
S-LifeTube 3L	102 970 14
S-LifeTube 4L	102 970 16

10 pcs

S-LifeTube 1R	102 970 11
S-LifeTube 2R	102 970 13
S-LifeTube 3R	102 970 15
S-LifeTube 4R	102 970 17

10 pcs

LifeTips



Open 4 mm	102 969 87
Open 6 mm	102 969 88
Open 8 mm	102 969 89
Open 10 mm	102 969 90

10 pcs



Semi Open	106 737 79
-----------	------------

10 pcs



Closed 8 mm	102 969 86
-------------	------------

10 pcs



Double 8-10 mm	102 969 84
Double 10-12 mm	102 969 85

10 pcs

Earhooks



Standard damped SX	106 023 89
Standard damped M	108 217 18
Standard damped P / PX	106 746 65



Standard undamped P / PX	104 244 27
--------------------------	------------



Small damped SX	104 250 21
Small damped M	106 759 12
Small damped P / PX	106 759 04

Service Parts

Fitting



LifeTube fitting set
S-LifeTube fitting set

102 969 68
102 969 92



Indicator clip set
(Motion M, PX, P micon)

108 212 06

1 pcs each



Indicator clip set red
Indicator clip set blue
(Motion SX micon)

104 197 05
104 197 04

100 pcs each



Measuring template

100 547 11



Programming adapter 13

104 220 16

set of 2 pcs

Accessories

Remote controls and charger



easyPocket™

106 752 87



Tek™

104 172 68



Tek™ Belt Clip

104 253 44



miniTek

106 034 93



VoiceLink™

106 735 06



ProPocket™
ProPocket™ alternative

104 172 40

104 178 23



ePen™
ePen™ alternative

104 172 42

104 172 43



eCharger

106 002 30

eCharger inlay 13
(Motion PX micon)

108 230 23

eCharger inlay 13
(Motion SX micon)

106 002 97



Rechargeable battery 13

104 238 62



ConnexxLink™

104 236 64



Lanyard

106 042 32



Car Adapter

106 015 44

Accessories

DAI safety kits



DAI safety kit
(Motion P micon)

108 206 36

includes audioshoe
and child safe battery
door



DAI safety kit
(Motion M micon)

108 206 55

includes audioshoe
and child safe battery
door

Accessories

Motion SX micon

Color exchange kits

	Beige	106 747 83
	Granite	108 207 19
	Dark Granite	106 747 84
	Grey	106 747 85
	Brown	106 747 86
	Black	106 747 87
	Silver	106 747 88
	Pearl White	106 747 92
	Golden Blonde	106 747 89
	Sandy Brown	106 747 90
	Dark champagne	106 747 91

Motion M micon

Color exchange kits

	Beige	106 748 44
	Granite	106 754 17
	Dark Granite	106 748 86
	Grey	106 754 16
	Black	106 696 53
	Silver	106 754 20
	Sandy Brown	106 754 19
	Candy Pink	106 735 97
	Galactic Blue	106 722 27

Accessories

Motion PX micon

Color exchange kits

	Beige	106 697 59
	Granite	106 761 97
	Dark Granite	106 694 95
	Grey	106 697 64
	Brown	106 697 66
	Black	106 697 65
	Silver	106 755 41
	Pearl White	106 755 42
	Golden Blonde	106 755 44
	Sandy Brown	106 755 45
	Dark champagne	106 755 46

Motion micon P

Color exchange kits

	Beige	106 697 57
	Granite	106 761 93
	Dark Granite	106 697 60
	Grey	106 697 63
	Black	106 697 58
	Silver	106 697 68
	Sandy Brown	106 697 67
	Candy Pink	106 697 61
	Galactic Blue	106 697 62

Notes

[illegible]

Abbreviations and Standards

Abbreviations

The following abbreviations are used in this datasheet:

OSPL	Output Sound Pressure Level
HFA	High Frequency Average
FOG	Full-on Gain
AI-DI	Articulation Index Directivity Index
MASL	Magneto Acoustical Sensitivity Level
SPLITS	Coupler SPL for an Inductive Telephone Simulator
RSETS	Relative Equivalent Telephone Sensitivity
AGC-O	Automatic Gain Control - Output controlled
IRIL	Input Related Interference Level

Standards

- ▶ All measurements with the 2 ccm coupler were performed according to ANSI S3.22-2009 and IEC 60118-7:2005.
- ▶ All measurements with an ear simulator were performed according to IEC 118-0/A1 and to DIN 45605 (frequency range).
- ▶ Effect of MPO was performed according to ANSI S3.22-2009 and IEC 60118-7:2005.
- ▶ The following ear pieces were used:
 - LifeTube
 - Earhook
- ▶ Extended frequency range up to 12 kHz for 7mi devices only.

WARNING

Instrument contains small parts.

Choking hazard!

- ▶ Do not use this instrument for the fitting of infants, small children or 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.

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 prior notice. The required features should therefore be specified in each individual case at the time of conclusion of the respective contract.

Find the current issue of this document under: <http://factsandfigures.hearing-siemens.com>