

- ① Dome or adapter
- ② Receiver
- ③ Receiver Socket
- ④ Microphones
- ⑤ Battery Door (Type 13)

DESCRIPTION

Receiver-in-canal air-conduction hearing aid (RIC), Battery 13, programmable through fitting software, Wireless connectivity, Remote control mc-PAD compatible, automatic bilateral synchronization.

INTENDED USE

The MICROSON mc 8 RIC hearing instrument is indicated to compensate moderate to severe hearing loss (transmissive, mixed or neurosensory). It is not suitable for children.

See Fitting Range⁽¹⁾

Features

- ✓ Matrix 131/73 @ 2cc mc-8 RIC (HP Receiver)
- ✓ Matrix 122/65 @ 2cc mc-8 RIC (P Receiver)
- ✓ Matrix 121/55 @ 2cc mc-8 RIC (M Receiver)
- ✓ Matrix 110/42 @ 2cc mc-8 RIC (S Receiver)
- ✓ 100% Digital Technology
- ✓ Digitally Programmable
- ✓ Real Time Analysis
- ✓ 8 Independent Channels WDRC
- ✓ 23 Bands
- ✓ 6 Memories
- ✓ Automatic Directional Microphones
- ✓ Automatic Feedback Canceller (OPTIMIZER)
- ✓ Data Logging
- ✓ Automatic Noise Reduction
- ✓ Automatic Environment Detection (iSD)
- ✓ Wireless Connectivity
- ✓ Compatible with mc-PAD Remote Control
- ✓ Auto-telephone
- ✓ Automatic bilateral telecoil Synchronization
- ✓ Low Battery Indicator
- ✓ Memory change indicator
- ✓ Suitable for mobile phones*
- ✓ Battery Type 13 - PR48 (IEC 60086)

Requirements

- 89600, Fitting Software Microson CODA e-STUDIO 6 (6.1.0 or higher)
- 53781, Right Programming Cable
- 53832, Left Programming Cable
- 79345, Battery 13 Flex Adapter
- 66183, NOAHLINK^A Programming Interface (Kernel v. 1.55.03)
- 73194, HI-PRO^B USB Hearing Instrument Programmer (Firmware 3.00 or higher)
- 88616, HI-PRO2^B Hearing Instrument Programmer (Firmware 4.00 or higher)
- 93337, mc-PAD remote control



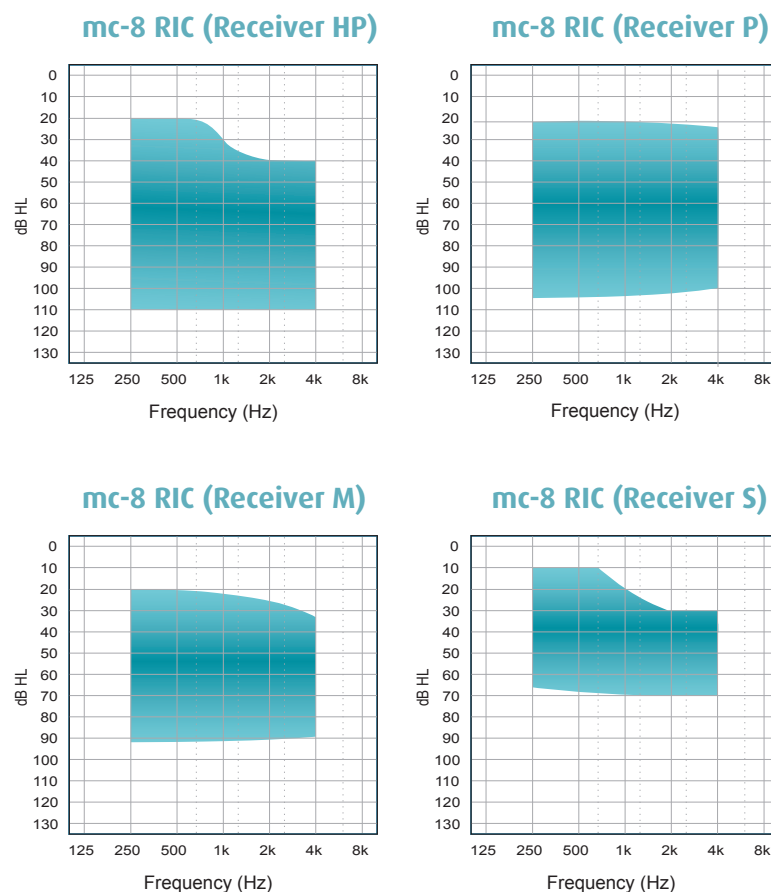
NOTE:

Requires Battery 13 Flex (Ref. 79345) for programming

^ANOAH & NOAHLINK are licensed products and registered trademarks of HIMSA A/S in Denmark.

^BHI-PRO USB is a registered trademark of GN Otometrics A/S in Denmark.

⁽¹⁾ Fitting Range



*According to IEC 60118-13:2011

DS-0028-002-EN
Rev.C 2016/05/27

mc-8 RIC
1 of 7

Acoustic Data		IEC 60118-7:2005				IEC 60118-0:1983/ A1:1994			
		RECEIVER				RECEIVER			
		HP	P	M	S	HP	P	M	S
OUTPUT	OSPL ¹ 90 Peak (dB _{SPL})	131	122	121	110	138	132	131	120
	OSPL90 Peak Frequency (Hz)	2000	2900	2900	3300	2100	3000	3000	3300
	HFA ² -OSPL90 / RTF ³ -OSPL90 (dB _{SPL})	124	118	117	104	133	126	125	111
GAIN	HFA-FOG ⁴ (dB)	66	60	51	34	73	67	59	42
	RTF-FOG (dB)	68	59	50	33	75	67	59	42
	FOG (dB)	73	65	55	42	82	74	66	52
	FOG Frequency (Hz)	2100	3100	3000	3400	2100	3100	3100	3400
	RTG ⁵ (dB)	47	42	40	28	58	51	50	36
NOISE	Equivalent Input Noise (dB _{SPL})	18	27	24	28	14	27	25	29
AGC ⁶	Attack Time (ms)	1	1	1	1	1	2	2	7
	Release Time(ms)	18	10	14	18	4	3	3	3
TELECOIL	HFA-SPLI ⁷ / RTF-SPLI	108	102	99	88	118	113	110	96
	HFA-FOG-MASL ⁸ / RTF-FOG-MASL @ 1 mA/m	97	93	84	65	106	98	91	72
	500 Hz @ 100 / 50 mA/m (THD %)	1,8	2,4	3,0	0,6	3,6	4,4	2,3	1,6
	800 Hz @ 100 / 50 mA/m (THD %)	3,9	1,6	3,0	0,4	4,6	4,4	3,0	1,7
	1600 Hz @ 100 / 50 mA/m (THD %)	0,4	1,1	3,8	1,4	0,4	3,0	3,1	2,2
DISTORTION	500 Hz @ 70 dB _{SPL} (THD %)	1,0	1,2	2,2	0,3	1,9	7,1	2,9	0,5
	800 Hz @ 70 dB _{SPL} (THD %)	1,0	0,8	2,7	0,3	1,9	4,3	4,2	0,7
	1600 Hz @ 65 / 70 dB _{SPL} (THD %)	0,3	0,9	1,6	0,5	0,5	1,4	2,0	1,2
CONSUMPTION	Current Drain (mA)	3,46	3,52	1,41	0,87	3,35	3,25	1,15	0,81
FREQUENCY LIMITS	f1 (Hz)	<100	<100	<100	<100	<100°	<100°	<100°	<100°
	f2 (Hz)	5800	7600	7600	7000	6000°	8100°	8100°	8000°
Power Source: 1.3V Battery Simulator		IEC 60318-5:2006				IEC 60318-4:2010			

IRIL ⁹ (Bystander compatibility)	IEC 60118-13:2011			
	800 - 960 MHz (dB _{SPL})	<52	<20	<13
	1400 - 2000 MHz (dB _{SPL})	<17	<43	<39
	2000 - 2480 MHz (dB _{SPL})	<23	<45	<35

¹OSPL: Output Sound Preassure Level

⁵RTG: Reference Test Gain

⁹IRIL: Input-Related Interference Level (IEC 60118-13:2011)

²HFA: High Frequency Average

⁶AGC: Automatic Gain Control

³RTF: Reference Test Frequency (1600 Hz)

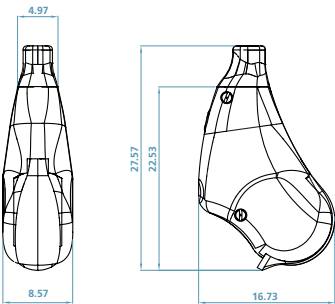
⁷SPLI: Sound Pressure Level Inductive

⁴FOG: Full On Gain

⁸MASL: Magneto Acoustical Sensitivity Level

*According to DIN 45605 standard

Weight and dimensions

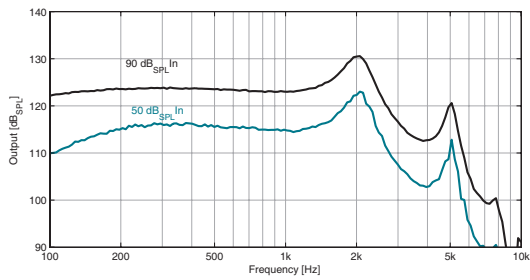


Weight without battery: 1.49 gr.
Weight including battery: 2.26 gr.
Dimensions in millimeters (mm)

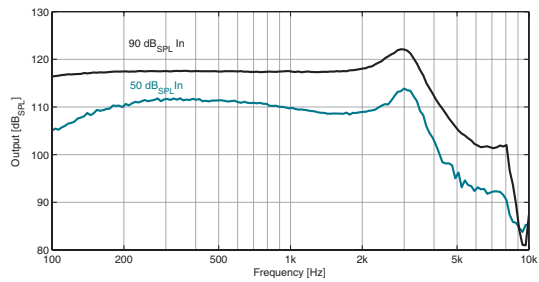
Measurements performed using a UPL 66 (Rohde & Schwarz) Id 23564 test unit on December 2014 & May 2016 and are subject to changes without prior notice.

OSPL90 / OSPL50 @ FOG @ IEC 60118-7:2005

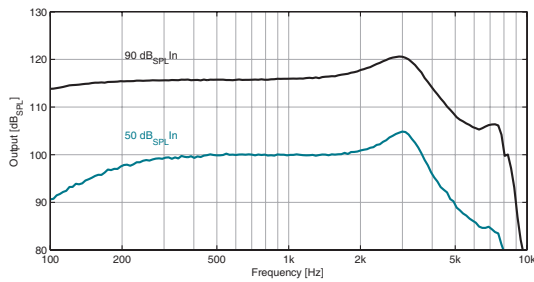
mc-8 RIC (Receiver HP)



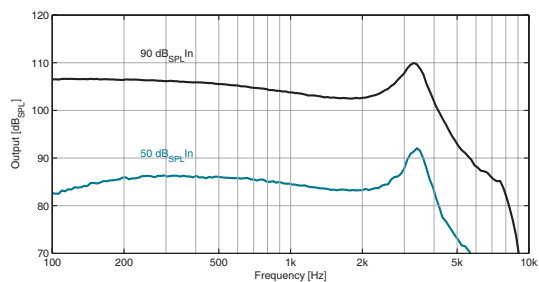
mc-8 RIC (Receiver P)



mc-8 RIC (Receiver M)

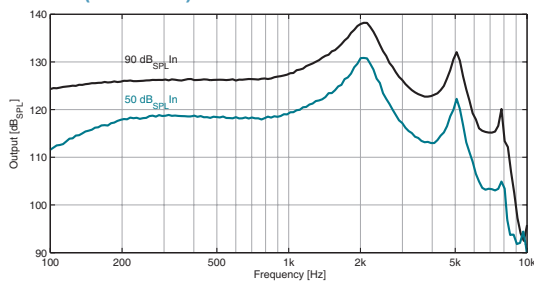


mc-8 RIC (Receiver S)

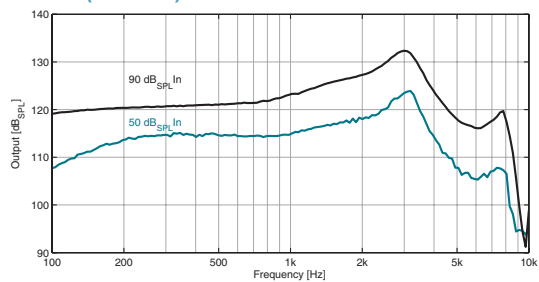


OSPL90 / OSPL50 @ FOG @ IEC 60118-0:1983/A1:1994

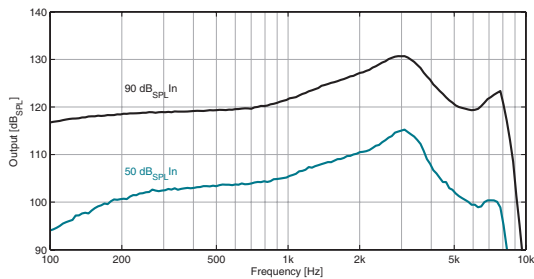
mc-8 RIC (Receiver HP)



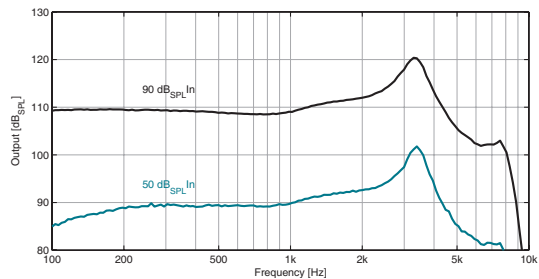
mc-8 RIC (Receiver P)



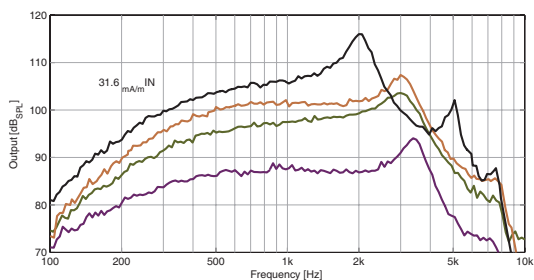
mc-8 RIC (Receiver M)



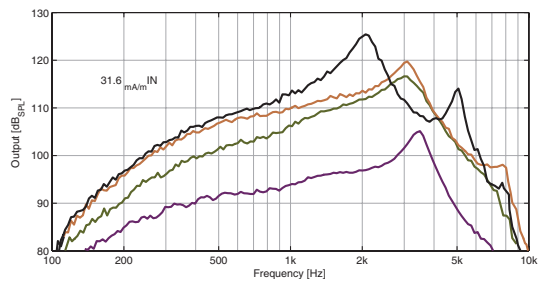
mc-8 RIC (Receiver S)



INDUCTION COIL SENSITIVITY @ RTS @ IEC 60118-7:2005



INDUCTION COIL SENSITIVITY @ RTS @ IEC 60118-0:1983/A1:1994



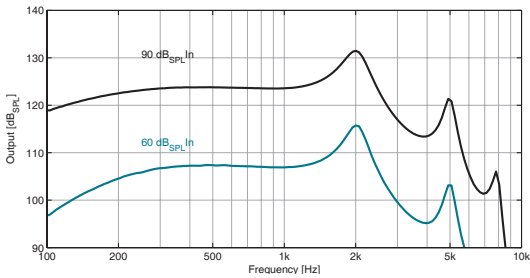
Receiver HP
Receiver P
Receiver M
Receiver S

DS-0028-002-EN
Rev.C 2016/05/27

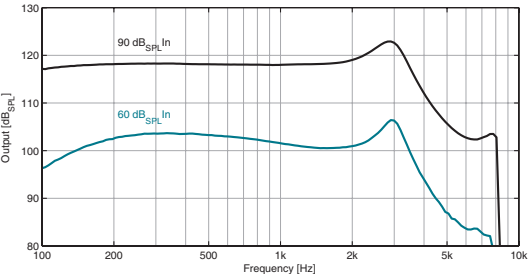
mc-8 RIC
3 of 7

FREQUENCY RESPONSE @ RTS @ IEC 60118-7:2005

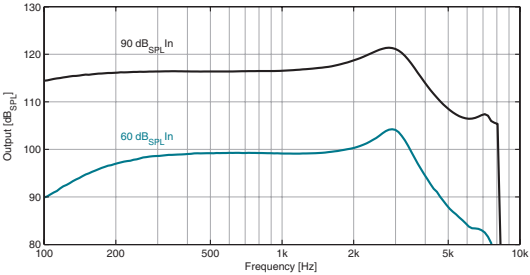
mc-8 RIC (Receiver HP)



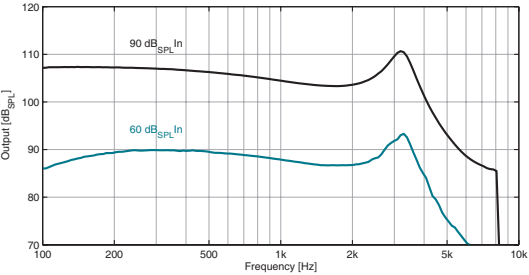
mc-8 RIC (Receiver P)



mc-8 RIC (Receiver M)

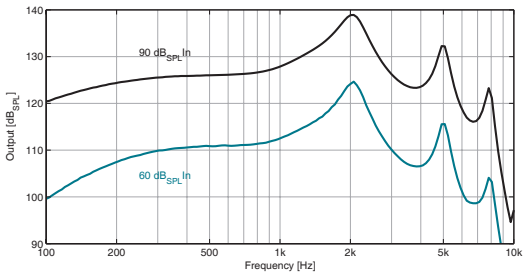


mc-8 RIC (Receiver S)

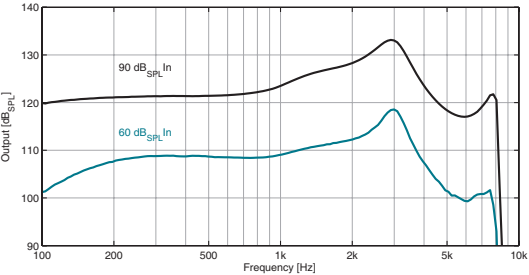


FREQUENCY RESPONSE @ RTS @ IEC 60118-0:1983/A1:1994

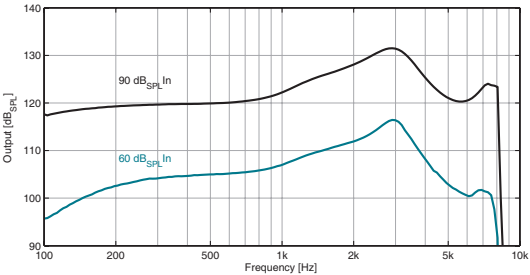
mc-8 RIC (Receiver HP)



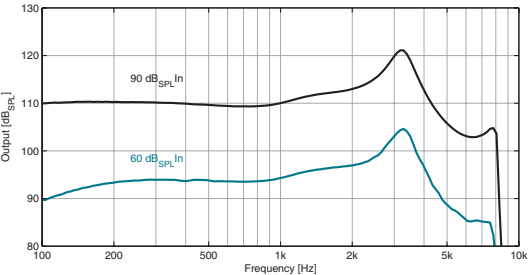
mc-8 RIC (Receiver P)



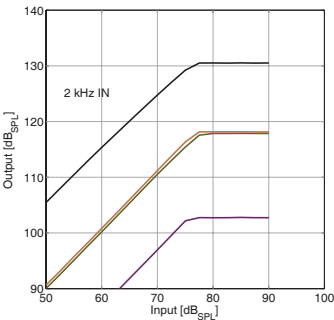
mc-8 RIC (Receiver M)



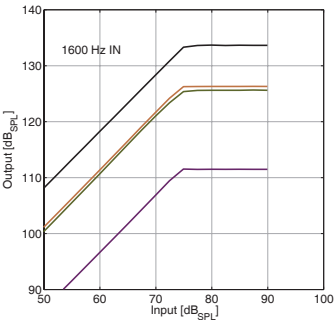
mc-8 RIC (Receiver S)



INPUT-OUTPUT @ RTS @ IEC 60118-7:2005



INPUT-OUTPUT @ RTS @ IEC 60118-0:1983/A1:1994



- Receiver HP
- Receiver P
- Receiver M
- Receiver S

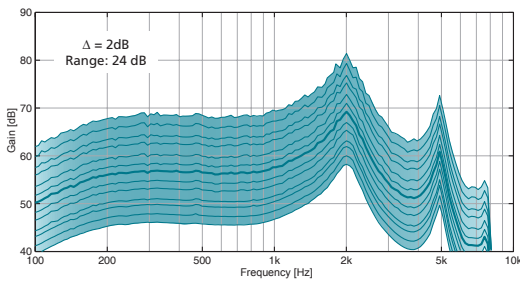
Product Data

DS-0028-002-EN
Rev.C 2016/05/27

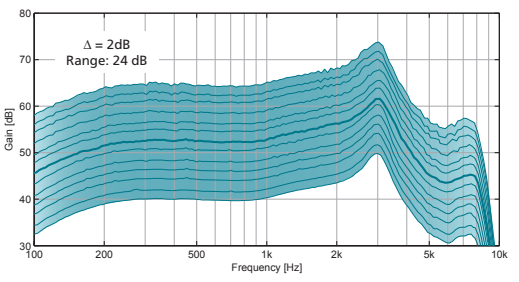
mc-8 RIC
4 of 7

FREQUENCY RESPONSE @ VOL. CTRL. @ IEC 60118-0:1983/A1:1994

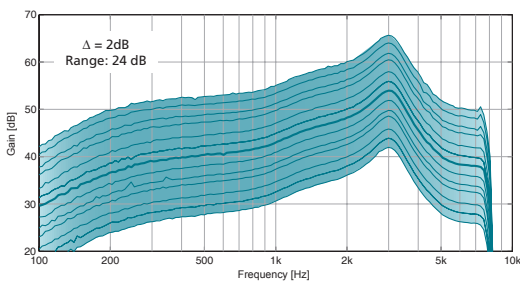
mc-8 RIC (Receiver HP)



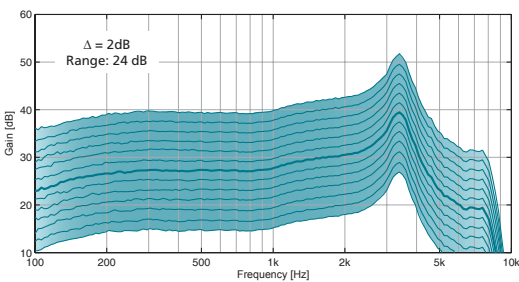
mc-8 RIC (Receiver P)



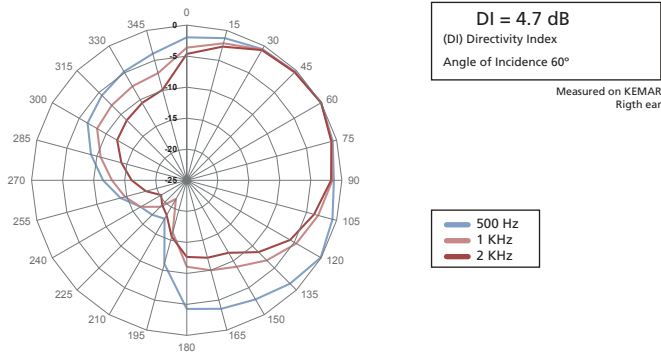
mc-8 RIC (Receiver M)



mc-8 RIC (Receiver S)



POLAR PLOT DIRECTIONAL MODE @ EN 60118-8:2005



Power Supply Electrical Features

	mc-8 RIC			
	RECEIVER S	RECEIVER M	RECEIVER P	RECEIVER HP
Nominal Operating Voltage	1.4 V			
Current Type	Direct current DC			
Nominal Current Leakage	0.81 mA	1.15 mA	3,25 mA	3,35 mA
Battery Nomenclature (IEC 60086)	PR48			

Radio Frequency (RF) Characteristics - R&TTF (Directive 1999/5/EC)¹

Frequency	10.579 MHz
Classification	Subclass 1: 78
Frequency Limits	552 KHz
Maximum Output	-37,36 dBμA/m @ 10 m

¹Radio Equipment and Telecommunications Terminal Equipment

HEARING INSTRUMENT CLASSIFICATION IN COMPLIANCE WITH IEC 60601-1 STANDARD

Medical Device Classification

Protection against electric shock	MEDICAL DEVICE WITH INTERNAL ELECTRICAL POWER SOURCE
	B Type Applied Part
	 This symbol indicates that the products described in these user instructions adhere to the requirements for an application part of Type B of IEC 60601-2-66. The surface of the hearing aid is specified as an applied part of Type B.
Working Method	CONTINUED WORKING

Environmental conditions

	Temperature Min. (°C)	Temperature Max. (°C)	Relative Humidity Min. (%)	Relative Humidity Max. (%)
Recommended usage and storage	0	40	10	95

Accesories & Spare Parts for professionals

- 75138 Microphone Foam Protector (70Pcs)
- 81730 Mold Receiver Removal Tool
- 76934 Auto-telephone Magnet Kit
- 93337 Remote Control Microson mc-Pad Spare Unit
- 88852 Membrane Windscreen BTE Beige (10Pcs)
- 88855 Membrane Windscreen BTE Artic Grey (10Pcs)
- 88854 Membrane Windscreen BTE Dolphin (10Pcs)
- 88853 Membrane Windscreen BTE Black (10Pcs)
- 91935 Waterproof Windscreen BTE Black (10Pcs)
- 91934 Waterproof Windscreen BTE Silver (10Pcs)
- 84787 Check Receiver Template Card
- 81718 Receiver Wax Filter Dispenser Blue (15Pcs)
- 81719 Receiver Wax Filter Dispenser Red (15Pcs)
- 84647 Measuring Gauge
- 86586 Ric Receiver Filter Set

Dome Adapters (*) (6 Pcs Packs)

- 84640 Microson Adapter RIC open 10mm filter Grid
- 84641 Microson Adapter RIC open 4mm filter Grid
- 84642 Microson Adapter RIC open 8mm filter Grid
- 84643 Microson Adapter RIC closed 10mm filter Grid
- 84644 Microson Adapter RIC closed 6mm filter Grid
- 84645 Microson Adapter RIC closed 8mm filter Grid
- 84627 Microson Adapter RIC doble closed 10-12mm filter Grid
- 84628 Microson Adapter RIC doble closed 8-10mm filter Grid
- 90945 Microson Adapter RIC semiopen 8-12mm filter Grid



(*) Manufacturer: Sivantos GmbH
Henri-Dunant-Str. 100 D-91058 Erlangen, Germany



Measurements performed using a UPL 66 (Rohde & Schwarz) Id 23564 test unit on December 2014 & May 2016 and are subject to changes without prior notice.

RECEIVERS*

Receiver S

- 83475 Microson Receiver RIC S-45dB nº 0 L
- 83457 Microson Receiver RIC S-45dB nº 0 R
- 83476 Microson Receiver RIC S-45dB nº1 L
- 83456 Microson Receiver RIC S-45dB nº1 R
- 83477 Microson Receiver RIC S-45dB nº 2 L
- 83454 Microson Receiver RIC S-45dB nº2 R
- 83478 Microson Receiver RIC S-45dB nº3 L
- 83460 Microson Receiver RIC S-45dB nº3 R



Receiver P

- 83471 Microson Receiver RIC P-65dB nº 0 L
- 83465 Microson Receiver RIC P-65dB nº 0 R
- 83472 Microson Receiver RIC P-65dB nº 1 L
- 83466 Microson Receiver RIC P-65dB nº 1 R
- 83473 Microson Receiver RIC P-65dB nº 2 L
- 83458 Microson Receiver RIC P-65dB nº 2 R
- 83474 Microson Receiver RIC P-65dB nº 3 L
- 83459 Microson Receiver RIC P-65dB nº 3 R



Receiver M

- 86744 Microson Receiver RIC M(v2)-55dB nº0 L
- 86745 Microson Receiver RIC M(v2)-55dB nº0 R
- 86746 Microson Receiver RIC M(v2)-55dB nº1 L
- 86747 Microson Receiver RIC M(v2)-55dB nº1 R
- 86748 Microson Receiver RIC M(v2)-55dB nº2 L
- 86749 Microson Receiver RIC M(v2)-55dB nº2 R
- 86750 Microson Receiver RIC M(v2)-55dB nº3 L
- 86751 Microson Receiver RIC M(v2)-55dB nº3 R



Receiver HP

- 85802 Face Plate HP Receiver 75dB 0 L
- 85803 Face Plate HP Receiver 75dB 0 R
- 85804 Face Plate HP Receiver 75dB 1 L
- 85805 Face Plate HP Receiver 75dB 1 R
- 85806 Face Plate HP Receiver 75dB 2 L
- 85807 Face Plate HP Receiver 75dB 2 R
- 85808 Face Plate HP Receiver 75dB 3 L
- 85809 Face Plate HP Receiver 75dB 3 R



Supporting Documents

- 91989 User's manual mc-8 RIC LP2 (ES/EN/IT/PT/FR)
- 91990 User's manual mc-8 RIC LP3 (EN/TR/RO/BG/EL/PL)
- FG-0028-003-EN Guía de Programación mc-8 RIC

Accessories & Spare Parts for end user

- 76934 Microson Auto-Telephone kit
- 81718 Blue HF4 pack filters + dispenser (15 pcs)
- 81719 Red HF4 pack filters + dispenser (15pcs)
- 82876 6 pack of Microson 13 hearing aid batteries (PR48)
- 88192 Microson Microbox case
- 93337 mc-PAD remote control



PRODUCT		REFERENCE	MODEL	GTIN-13
mc-8 RIC	PREMIUM	90570	MICROSON mc-8 RIC SILVER GREY PREMIUM	8435281310487
		90571	MICROSON mc-8 RIC ANTHRACITE GREY PREMIUM	8435281310494
		93291	MICROSON mc-8 RIC SAND PREMIUM	8435281311682
		90572	MICROSON mc-8 RIC VIOLET PREMIUM	8435281310500
		90569	MICROSON mc-8 RIC BLACK PEARL PREMIUM	8435281310470
		90566	MICROSON mc-8 RIC BEIGE	8435281310449
		90567	MICROSON mc-8 RIC ARTIC GREY	8435281310456
		90568	MICROSON mc-8 RIC DOLPHIN GREY	8435281310463

GMDN Code: 47169

(*) Manufacturer: Sivantos GmbH
Henri-Dunant-Str. 100 D-91058 Erlangen, Germany



DS-0028-002-EN
Rev.C 2016/05/27



Measurements performed using a UPL 66 (Rohde & Schwarz) Id 23564 test unit on December 2014 & May 2016 and are subject to changes without prior notice.