

Acoustics | Clocks | Evacuation



Audible

Speaker range by g+m elektronik ag



The background of the entire page is a photograph of a room filled with numerous acoustic foam blocks. The blocks are light-colored and have a faceted, pyramid-like shape. In the lower right foreground, a professional microphone is mounted on a stand, with a pair of headphones resting on top of it. The lighting is soft, creating subtle shadows and highlights on the foam blocks.

Swiss Made

Often invisible. But always loud and clear. For over 45 years now, the innovative ideas of g+m elektronik ag have been right at the heart of things. Our electro-acoustic developments set standards on the markets time and time again. Well beyond the boundaries of Europe.

Our brand name stands for Swiss values and for Swiss quality. Lasting and forward-looking. We develop, design and produce trend-setting solutions which have made us what we are with the well-founded expertise so typical of our company: They have made us to one of the market leaders.

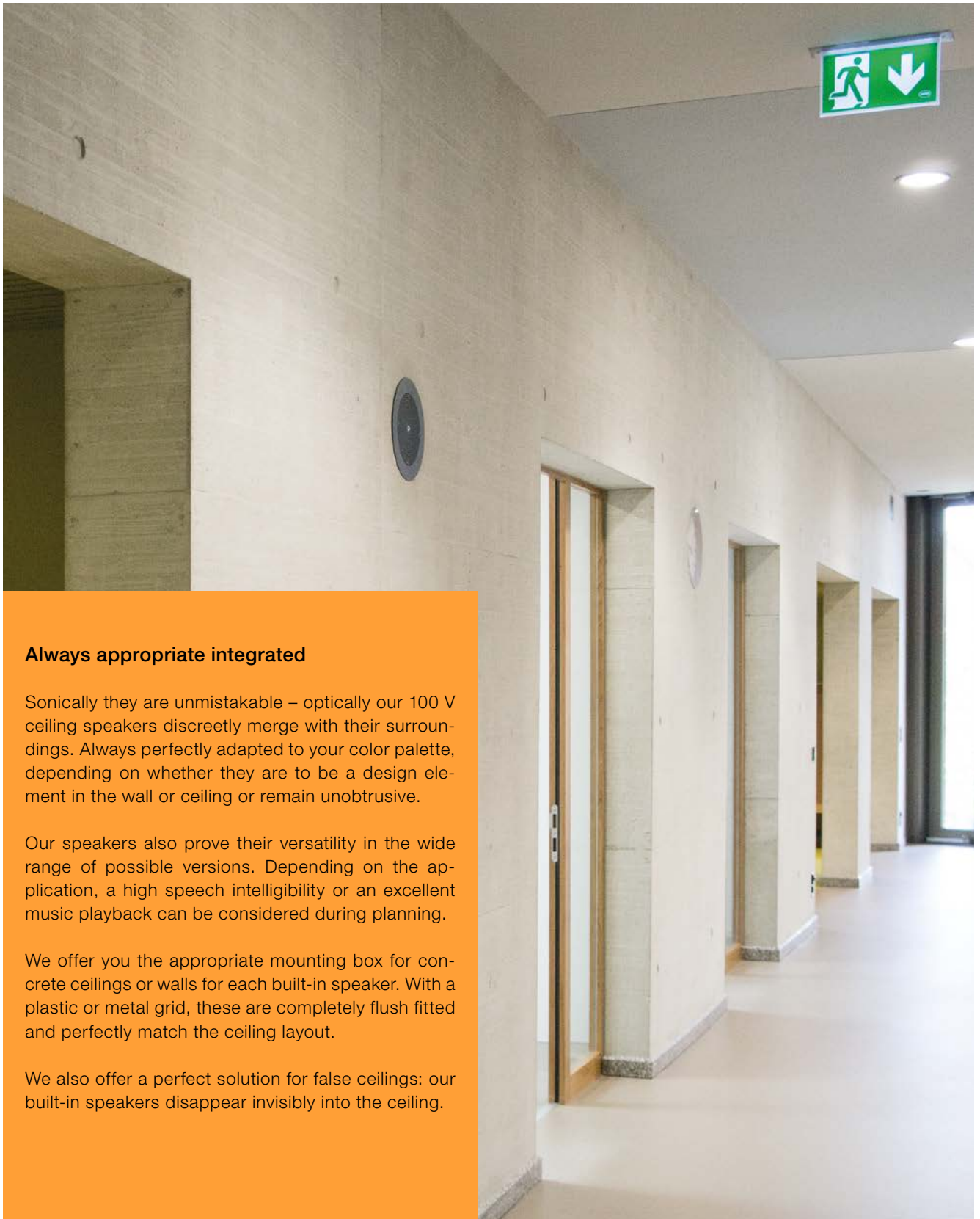
With innovative technology, our speakers guarantee clear speech or musical sound experiences. In our own acoustic space we are working on the ongoing development and optimisation of our wide range.



Content

Ceiling speakers	4
Compact speakers	12
Cabinet speakers	16
Spherical speaker	20
Drop-design speaker	21
Horn speakers	22
Column speakers	24
EN 54-24	28
EN 54-24 A/B	34

Ceiling speakers



Always appropriate integrated

Sonically they are unmistakable – optically our 100 V ceiling speakers discreetly merge with their surroundings. Always perfectly adapted to your color palette, depending on whether they are to be a design element in the wall or ceiling or remain unobtrusive.

Our speakers also prove their versatility in the wide range of possible versions. Depending on the application, a high speech intelligibility or an excellent music playback can be considered during planning.

We offer you the appropriate mounting box for concrete ceilings or walls for each built-in speaker. With a plastic or metal grid, these are completely flush fitted and perfectly match the ceiling layout.

We also offer a perfect solution for false ceilings: our built-in speakers disappear invisibly into the ceiling.

SPECIFICATIONS

Round with fire dome



	GM-3305	GM-3405	GM-3820	GM-3830	GM-3860
Loudspeaker system	1-Way	1-Way	2-Way Coaxial	2-Way	2-Way
Nominal noise power 100 V	1.5/3/6 W	1.5/3/6 W	1.5/3/6 W	3.75/7.5/15/30 W	15/30/60 W
Nominal noise power 8 Ω	6 W	6 W		30 W	100 W
Nominal impedance 100 V	6667 Ω 3333 Ω 1667 Ω	6666 Ω 3333 Ω 1667 Ω	6667 Ω 3333 Ω 1667 Ω	2667 Ω 1333 Ω 667 Ω 333 Ω	667 Ω 333 Ω 167 Ω
Sensitivity (1 W/1 m)	91.3 dB	93.8 dB	90.8 dB	90.6 dB	93.7 dB
Maximum SPL	99.1 dB (6 W/1 m)	101.6 dB (6 W/1 m)	98.5 dB (6 W/1 m)	105.3 dB (30 W/1 m)	111.5 dB (60 W/1 m)
Frequency range (-10 dB)	140–16'000 Hz	340–15'000 Hz	90–20'000 Hz	95–22'000 Hz	83–19'000 Hz
Coverage angle (-6 dB) (0.5/1/2/4 kHz)	H 180°/180°/180°/68° V 180°/180°/180°/68°	H 180°/180°/180°/70° V 180°/180°/180°/70°	H 180°/180°/180°/70° V 180°/180°/180°/70°	H 180°/180°/180°/75° V 180°/180°/180°/75°	H 180°/180°/180°/180° V 180°/180°/180°/180°
Dimensions (Ø/D)	185/120 mm	200/130 mm	240/130 mm	240/140 mm	280/180 mm
Cutout	Ø 165 mm	Ø 185 mm	Ø 210 mm	Ø 205 mm	Ø 250 mm
Housing material	ABS 765A	Metal	ABS 757	ABS 757	ABS 757
Weight	0.8 kg	0.9 kg	2.0 kg	2.0 kg	4.1 kg
Color	White RAL 9003	White RAL 9003	White RAL 9003	White RAL 9003	White RAL 9003
Temperature range	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C
Protection	IP44	IP44	IP44	IP44	IP44
Measurement environment	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field

ACCESSORIES VERSION					
EV-Version with ceramic terminal and thermal fuse	GM-3305-EV	GM-3405-EV	GM-3820-EV	GM-3830-EV	GM-3860-EV
Loudspeaker 8 Ω		On request	On request	On request	On request
Housing		GM-3416			
Spring steel clip (PU 1 pcs.), 4 units for ceiling installation required			Art. Nr. 546	Art. Nr. 546	
Ball protection grille					GM-3867
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS

SPECIFICATIONS

Round



	GM-3300 GM-3308	GM-3303-EV	GM-3307	GM-3310 GM-3318	GM-3313-EV
Loudspeaker system	1-Way Tweeter dome	1-Way	1-Way	1-Way Tweeter dome	1-Way Tweeter dome
Nominal noise power 100 V	1.5/3/6 W	1.5/3/6 W	1.5/3/6 W	1.5/3/6 W	1.5/3/6 W
Nominal noise power 8 Ω	8 W		6 W	11 W	
Nominal impedance 100 V	6667 Ω 3333 Ω 1667 Ω	6666 Ω 3333 Ω 1666 Ω	6667 Ω 3333 Ω 1667 Ω	6667 Ω 3333 Ω 1667 Ω	6667 Ω 3333 Ω 1667 Ω
Sensitivity (1 W/1 m)	95.2 dB	89.2 dB	91.3 dB	94.1 dB	92.6 dB
Maximum SPL (6 W/1 m)	103.0 dB	97.2 dB	99.1 dB (6 W/1 m)	101.9 dB	100.4 dB
Frequency range (-10 dB)	77–20'000 Hz	100–20'000 Hz	140–16'000 Hz	77–20'000 Hz	76–20'000 Hz
Coverage angle (-6 dB/1 m)		180° H × 180° V			
Coverage angle (-6 dB) (0.5/1/2/4 kHz)	H 180°/180°/155°/85° V 180°/180°/155°/85°		180°/180°/180°/68° 180°/180°/180°/68°	180°/180°/135°/70° 180°/180°/135°/70°	180°/180°/110°/75° 180°/180°/110°/75°
Dimensions (Ø/D)	206/70 mm	200/70 mm	185/90 mm	226/80 mm	230/77 mm
Cutout	Ø 170 mm	Ø 170 mm	Ø 165 mm	Ø 196 mm	Ø 196 mm
Housing material	ABS 765A	ABS 765A	ABS 765A	ABS 765A	ABS 765A
Weight	0.8 kg	0.8 kg	0.8 kg	0.9 kg	0.9 kg
Color	White	White	White RAL 9003	White	White
Temperature range	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C
Protection	IP44	IP44	IP44	IP44	IP44
Measurement environment	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field

ACCESSORIES VERSION					
EV-Version with ceramic terminal and thermal fuse	GM-3300-EV	GM-3303-EV	GM-3307-EV	GM-3310-EV	GM-3313-EV
Loudspeaker 8 Ω	GM-3308			GM-3318	
Housing	GM-3306	GM-3306		GM-3336	GM-3336
Spring steel clip (PU 1 pcs), 4 units for ceiling installation required	Art. Nr. 546	Art. Nr. 546		Art. Nr. 546	Art. Nr. 546
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS

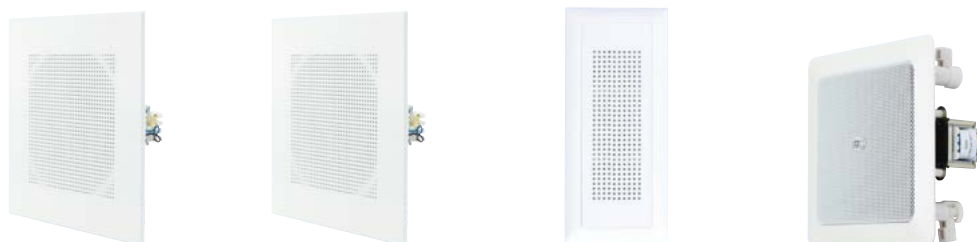


	GM-3330 GM-3338	GM-3400	GM-3410 GM-3418	GM-3420	GM-3450
Loudspeaker system	2-Way Coaxial	1-Way	2-Way Coaxial	1-Way	1-Way
Nominal noise power 100 V	2/5/10 W	1.5/3/6 W	1.5/3/6 W	1.5/3/6 W	2/4/6 W
Nominal noise power 8 Ω	20 W	7.5 W	10 W	6 W	6 W
Nominal impedance 100 V	5000 Ω 2000 Ω 1000 Ω	6666 Ω 3333 Ω 1666 Ω	6666 Ω 3333 Ω 1666 Ω	6666 Ω 3333 Ω 1666 Ω	6667 Ω 3333 Ω 1667 Ω
Sensitivity (1 W/1 m)	93.0 dB	96.5 dB	93.0 dB	96.0 dB	89.0 dB
Maximum SPL	103.0 dB (10 W/1 m)	104.0 dB (6 W/1 m)	102.0 dB (6 W/1 m)	101.0 dB (6 W/1 m)	97.0 dB (6 W/1 m)
Frequency range (-10 dB)	70–20'000 Hz	350–10'000 Hz	350–20'000 Hz	70–20'000 Hz	100–20'000 Hz
Coverage angle (-6 dB/1 m)		170° H × 170° V	165° H × 165° V	150° H × 150° V	200°
Coverage angle (-6 dB) (0.5/1/2/4 kHz)	H 180°/180°/135°/65° V 180°/180°/130°/55°				
Dimensions (Ø/D)	230/95 mm	235/80 mm	235/90 mm	220/90 mm	105/72 mm
Cutout	Ø 196 mm	Ø 195 mm	Ø 195 mm	Ø 200 mm	Ø 85 mm
Housing material	ABS 765A	Metal	Metal	Metal	Metall
Weight	GM-3330: 1.7 kg GM-3338: 1.2 kg	1.2 kg	1.8 kg	1.2 kg	0.5 kg
Color	White	White RAL 9010	White RAL 9010	White RAL 9010	White RAL 9010
Temperature range	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-40 °C to ~110 °C	-20 °C bis ~45 °C
Protection	IP44	IP44	IP44	IP44	IP44
Measurement environment	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field

ACCESSORIES VERSION					
EV-Version with ceramic terminal and thermal fuse	GM-3330-EV	GM-3400-EV	GM-3410-EV	GM-3420-EV	
Loudspeaker 8 Ω	GM-3338	On request	GM-3418	On request	
Loudspeaker, weatherproof, 100 V			GM-3410-WF		
Housing	GM-3336	GM-3406	GM-3406		
Spring steel clip (PU 1 pcs), 4 units for ceiling installation required	Art. Nr. 546				
Fire dome				GM-3406-3420	
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS

SPECIFICATIONS

Angular



	GM-3500	GM-3510 GM-3518	GM-3550 GM-3558	GM-3700
Loudspeaker system	1-Way	2-Way Coaxial	1-Way	1-Way
Nominal noise power 100 V	1.5/3/6 W	1.5/3/6 W	1.5/3/6 W	1.5/3/6 W
Nominal noise power 8 Ω	7.5 W	10 W	15 W	8 W
Nominal impedance 100 V	6666 Ω 3333 Ω 1666 Ω	6666 Ω 3333 Ω 1666 Ω	6666 Ω 3333 Ω 1661 Ω	6666 Ω 3333 Ω 1667 Ω
Sensitivity (1 W/1 m)	96.5 dB	93.0 dB	88.5 dB	91.0 dB
Maximum SPL (6 W/1 m)	104.0 dB	102.0 dB	97.0 dB	104.0 dB
Frequency range (-10 dB)	350–20'000 Hz	350–20'000 Hz	200–20'000 Hz	110–20'000 Hz
Coverage angle (-6 dB/1 m)	170° H × 170° V	165° H × 165° V	100° H × 150° V	180° H × 180° V
Dimensions (W × H × D)	230 × 230 × 80 mm	230 × 230 × 90 mm	88 × 208 × 70 mm	180 × 180 × 90 mm
Cutout	Ø 195 mm	Ø 195 mm	See datasheet	150 × 150 mm
Housing material	Metal	Metal	ABS 757	ABS 757
Weight	1.3 kg	1.6 kg	0.55 kg	0.9 kg
Color	White RAL 9010	White RAL 9010	White EDIZIO	White
Temperature range	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C
Protection	IP44	IP44	IP44	IP44
Measurement enviroment	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field

ACCESSORIES VERSION				
EV-Version with ceramic terminal and thermal fuse	GM-3500-EV	GM-3510-EV	GM-3550-EV	GM-3700-EV
Loudspeaker 8 Ω	On request	GM-3518	GM-3558	On request
Loudspeaker watherproof, 100 V		GM-3510-WF		
Wall mounted			GM-3550-ED-AP	
Housing	GM-3506	GM-3506	GM-3556	GM-3706
Spring steel clip (PU 1 pcs), 4 units for ceiling installation requiered				Art. N° 546
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS

SPECIFICATIONS

Angular



	GM-3710 GM-3718	GM-4100	GM-4210 GM-4218	GM-4220 GM-4228	GM-4340 GM-4348
Loudspeaker system	2-Way Coaxial	1-Way Tweeter dome	2-Way	2-Way	2-Way
Nominal noise power 100 V	1.5/3/6 W	1.5/3/6 W	1.5/3/6 W	2/5/10 W	2/5/10 W
Nominal noise power 8 Ω	30 W	7.5 W	10 W	20 W	30 W
Nominal impedance 100 V	6667 Ω 3333 Ω 1667 Ω	6666 Ω 3333 Ω 1666 Ω	6666 Ω 3333 Ω 1666 Ω	5000 Ω 2000 Ω 1000 Ω	5000 Ω 2000 Ω 1000 Ω
Sensitivity (1 W/1 m)	91.8 dB	93.0 dB	88.0 dB	89.3 dB	90.0 dB
Maximum SPL	99.6 dB (6 W/1 m)	100.0 dB (6 W/1 m)	98.0 dB (6 W/1 m)	99.3 dB (10 W/1 m)	100.0 dB (10 W/1 m)
Frequency range (-10 dB)	68–19'000 Hz	250–20'000 Hz	75–20'000 Hz	77–20'000 Hz	75–20'000 Hz
Coverage angle (-6 dB/1 m)		140° H × 120° V	100° H × 150° V		120° H × 150° V
Coverage angle (-6 dB) (0.5/1/2/4 kHz)	H 180°/180°/145°/50° V 180°/180°/145°/50°			180°/180°/180°/115° 180°/180°/50°/25°	
Dimensions (W × H × D)	220 × 220 × 90 mm	145 × 260 × 80 mm	146 × 220 × 92 mm	192 × 280 × 85 mm	255 × 358 × 100 mm
Cutout	190 × 190 mm	110 × 220 mm	120 × 192 mm	156 × 244 mm	225 × 328 mm
Housing material	ABS 757	Metal	ABS 757	ABS 757	ABS 757
Weight	1.4 kg	1.2 kg	1.4 kg	1.9 kg	2.9 kg
Color	White	White	White	White	White
Temperature range	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C
Protection	IP44	IP44	IP44	IP34	IP44
Measurement environment	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field

ACCESSORIES VERSION					
EV-Version with ceramic terminal and thermal fuse	GM-3710-EV	GM-4100-EV	GM-4210-EV	GM-4220-EV	GM-4340-EV
Loudspeaker 8 Ω	GM-3718	On request	GM-4218	GM-4228	GM-4348
Housing	GM-3716	GM-4106	GM-4216	GM-4206	GM-4306
Spring steel clip (PU 1 pcs), 4 units for ceiling installation required	Art. N° 546		Art. N° 546	Art. N° 546	Art. N° 546
Ball protection grille					GM-4307
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS

SPECIFICATIONS

Angular



	GM-3002	GM-3000 GM-3008	GM-3010	GM-3030 GM-3038	GM-3200
Loudspeaker system	1-Way	1-Way	2-Way Coaxial	2-Way Coaxial	1-Way Tweeter dome
Nominal noise power 100 V	1.5/3/6 W	1.5/3/6 W	1.5/3/6 W	2/5/10 W	1.5/3/6 W
Nominal noise power 8 Ω	7.5 W	7.5 W	10 W	20 W	7.5 W
Nominal impedance 100 V	6667 Ω 3333 Ω 1667 Ω	6666 Ω 3333 Ω 1666 Ω	6666 Ω 3333 Ω 1666 Ω	5000 Ω 2000 Ω 1000 Ω	6666 Ω 3333 Ω 1666 Ω
Sensitivity (1 W/1 m)	95.2 dB	95.5 dB	94.0 dB	87.0 dB	93.0 dB
Maximum SPL	102.9 dB (6 W/1 m)	103.0 dB (6 W/1 m)	103.0 dB (6 W/1 m)	96.0 dB (10 W/1 m)	100.0 dB (6 W/1 m)
Frequency range (-10 dB)	180–7'300 Hz	150–12'000 Hz	100–20'000 Hz	75–20'000 Hz	250–20'000 Hz
Coverage angle (-6 dB/1 m)		150° H × 150° V	155° H × 155° V	155° H × 155° V	140° H × 120° V
Coverage angle (-6 dB) H (0.5/1/2/4 kHz) V	180°/180°/110°/100° 180°/180°/110°/100°				
Dimensions (W × H × D)	195 × 195 × 100 mm	250 × 400 × 125 mm	250 × 400 × 125 mm	250 × 400 × 125 mm	128 × 245 × 85 mm
Cutout	180 × 180 mm	200 × 200 mm	200 × 200 mm	200 × 200 mm	100 × 200 mm
Housing material	MDF	MDF	MDF	MDF	MDF
Weight	1.6 kg	3.1 kg	3.2 kg	3.8 kg	1.5 kg
Color	Black	Black	Black	Black	Black
Temperature range	20 °C to ~45 °C	20 °C to ~45 °C	20 °C to ~45 °C	20 °C to ~45 °C	-20 °C to ~45 °C
Protection	IP34 with hole plate Ø 2.5–12 mm	IP34 with hole plate Ø 2.5–12 mm	IP34 with hole plate Ø 2.5–12 mm	IP34 with hole plate Ø 2.5–12 mm	IP34 with hole plate Ø 2.5–12 mm
Measurement environment	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field

ACCESSORIES VERSION					
EV-Version with ceramic terminal and thermal fuse	GM-3002-EV	GM-3000-EV	GM-3010-EV	GM-3030-EV	GM-3200-EV
Loudspeaker 8 Ω	On request	GM-3008	On request	GM-3038	On request

Compact speakers



Perfectly positioned

Where our compact speakers are positioned – they deliver on their promise: With their excellent high acoustical quality of music and language, sports and school halls, multi functional rooms or churches can be equipped with a brilliant sound solution.

Cutting edge technology, packed in sturdy and shapely casings, our products are suitable for surface, wall or ceiling mounting.

SPECIFICATIONS



	GM-SUB-100	Verve 108	Verve 110	Verve 112	Verve 115
Loudspeaker system	1-Way	2-Way Passive	2-Way Passive	2-Way Passive	2-Way Passive
Nominal noise power100 V	12.5/25/50/100 W				
Nominal noise power8 Ω	100 W	125 W	150 W	200 W	250 W
Nominal impedance 100 V	800 Ω 400 Ω 200 Ω 100 Ω				
Sensitivity (1 W/ 1 m)	88.0 dB	95.0 dB	97.0 dB	98.0 dB	99.0 dB
Maximum SPL	108.0 dB	119.0 dB	121.0 dB	124.0 dB	125.0 dB
Frequency range (-10 dB)	54–200 Hz	70–18'000 Hz	60–18'000 Hz	55–18'000 Hz	50–18'000 Hz
Coverage angle (-6 dB)		80° H × 50° V	80° H × 50° V	80° H × 50° V	80° H × 50° V
Coverage angle (-6 dB) H (0.5/1/2/4 kHz) V					
Dimensions (W × H × D)	370 × 510 × 400 mm	268 × 500 × 270 mm	326 × 565 × 325 mm	394 × 645 × 380 mm	425 × 742 × 420 mm
Cutout for mounting frame					
Housing material	MDF	Plywood	Plywood	Plywood	Plywood
Weight	22.0 kg	11.6 kg	15.4 kg	20.6 kg	27.2 kg
Color	Black or white	Black	Black	Black	Black
Temperature range	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C
Protection	IP22	IP44	IP44	IP44	IP44
Measurement environment	Free-field	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field

ACCESSORIES VERSION					
Version in black	GM-SUB-100-SW				
Version in white	GM-SUB-100-WS	Verve-108-W	Verve-110-W	Verve-112-W	Verve-115-W
Active loudspeaker		Verve 108a	Verve 110a	Verve 112a	Verve 115a
Mounting frame	GM-8560-SUB-100		Deckengitter-110	Deckengitter-112	Deckengitter-115
Mounting frame incl. solid guard					
Frequency separating filter	GM-8910				
Safety cable	Art. Nr. 8463	Art. Nr. 8463	Art. Nr. 8463	Art. Nr. 8463	Art. Nr. 8463
U-bracket	GM-8565-SUB-100	VV-U108	VV-U110	VV-U112	VV-U115
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS

SPECIFICATIONS



	GM-8110	GM-8120	GM-8130	Project 315	Project 320
Loudspeaker system	2-Way	2-Way	2-Way	2-Way	2-Way
Nominal noise power100 V	2/4/8/16 W	2/4/8/16 W	2.5/5/10/20 W	1/2/4/7.5/15 W	4/8/15/20 W
Nominal noise power8 Ω	30 W	35 W	45 W	15 W	20 W
Nominal impedance 100 V	5000 Ω 2500 Ω 1250 Ω 625 Ω	5000 Ω 2500 Ω 1250 Ω 625 Ω	4000 Ω 2000 Ω 1000 Ω 500 Ω	5000 Ω 2500 Ω 1333 Ω 666 Ω	2500 Ω 1250 Ω 666 Ω 500 Ω
Sensitivity (1 W/1 m)	89.0 dB	92.5 dB	91.8 dB	85.0 dB	87.0 dB
Maximum SPL (1 m)	100.8 dB (16 W/1 m)	105.5 dB (16 W/1 m)	104.8 dB (20 W/1 m)	100.0 dB (15 W/1 m)	103.0 dB (20 W/1 m)
Frequency range (-10 dB)	145–15'000 Hz	145–14'000 Hz	120–15'200 Hz	100–15'000 Hz	100–20'000 Hz
Coverage angle (-6 dB)				120° H × 120° V	120° H × 120° V
Coverage angle (-6 dB) (0.5/1/2/4 kHz)	H 360°/150°/65°/265° V 360°/180°/180°/90°	H 360°/165°/75°/105° V 360°/200°/160°/84°	H 200°/160°/90°/65° V 360°/160°/150°/50°		
Dimensions (W × H × D)	145 × 205 × 140 mm	170 × 240 × 165 mm	205 × 285 × 190 mm	143 × 204 × 162 mm	143 × 204 × 162 mm
Housing material	ABS 757	ABS 757	ABS 757	Plastic	Plastic
Weight	1.5 kg	2 kg	3 kg	1.5 kg	1.8 kg
Color	Black or white	Black or white	Black or white	Black or white	Black or white
Temperature range	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C
Protection	IP44	IP44	IP44	IP44	IP44
Measurement enviroment	Free-field	Free-field	Free-field	Half-space free-field	Half-space free-field

ACCESSORIES VERSION					
Version in black	GM-8110-SW Incl. U-bracket	GM-8120-SW Incl. U-bracket	GM-8130-SW Incl. U-bracket	Project 315-BT	Project 320-BT
Version in white	GM-8110-WS Incl. U-bracket	GM-8120-WS Incl. U-bracket	GM-8130-WS Incl. U-bracket	Project 315-WHT	Project 320-WHT
Ball-holder black (SW)	GM-8439	GM-8439	GM-8439	Inclusive	Inclusive
Ball-holder white (WS)	GM-8440	GM-8440	GM-8440	Inclusive	Inclusive
Safety cable				Inclusive	Inclusive
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS



	Project 530	Project 550	Project 640	Project 660
Loudspeaker system	2-Way	2-Way	2-Way	2-Way
Nominal noise power _{100 V}	10/15/20/30 W	15/25/40/50 W	10/20/30/40 W	15/30/45/60 W
Nominal noise power _{8 Ω}	30 W	50 W	40 W	60 W
Nominal impedance 100 V	1000 Ω 666 Ω 500 Ω 333 Ω	666 Ω 400 Ω 250 Ω 200 Ω	1000 Ω 500 Ω 333 Ω 250 Ω	666 Ω 333 Ω 222 Ω 166 Ω
Sensitivity (1 W/1 m)	87.5 dB	89.0 dB	89.0 dB	90.0 dB
Maximum SPL (1 m)	106.0 dB (30 W/1 m)	109.0 dB (50 W/1 m)	108.0 dB (40 W/1 m)	111.0 dB (60 W/1 m)
Frequency range (-10 dB)	85–15'000 Hz	80–20'000 Hz	70–20'000 Hz	70–20'000 Hz
Coverage angle (-6 dB)	100° H × 100° V	100° H × 100° V	90° H × 90° V	90° H × 90° V
Dimensions (W × H × D)	168 × 240 × 180 mm	168 × 240 × 180 mm	218 × 312 × 219 mm	218 × 312 × 219 mm
Housing material	Plastic	Plastic	Plastic	Plastic
Weight	2.9 kg	2.9 kg	4.5 kg	4.5 kg
Color	Black or white	Black or white	Black or white	Black or white
Temperature range	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C
Protection	IP44	IP44	IP44	IP44
Measurement environment	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field

ACCESSORIES VERSION				
Version in black	Project 530-BT	Project 550-BT	Project 640-BT	Project 660-BT
Version in white	Project 530-WHT	Project 550-WHT	Project 640-WHT	Project 660-WHT
Ball-holder black (SW)	Inclusive	Inclusive	Inclusive	Inclusive
Ball-holder white (WS)	Inclusive	Inclusive	Inclusive	Inclusive
Safety cable	Inclusive	Inclusive	Inclusive	Inclusive
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS

Cabinet speakers



Public address solutions for internal areas

These are an integral part of the effective acoustic solutions g+m elektronik ag offer: Our cabinet speakers transmit speech and background music with excellent sound quality.

Our assortment includes a wide variety of shapes, colors and material types – from speakers with flat and curved screens to double-sided coverage models.

Adapters for busbars and special holders are also available in our range.

SPECIFICATIONS

Angular



	GM-4500 GM-4508	GM-5020	GM-5400 GM-5408	GM-5600
Loudspeaker system	1-Way	2-Way Coaxial	1-Way	1-Way
Nominal noise power100 V	2/5/10 W	1.5/3/6 W	1.5/3/6 W	1.5/3/6 W
Nominal noise power8 Ω	15 W	10 W	9 W	6 W
Nominal impedance 100 V	5000 Ω 2000 Ω 1000 Ω	6667 Ω 3333 Ω 1667 Ω	6667 Ω 3333 Ω 1667 Ω	6667 Ω 3333 Ω 1667 Ω
Sensitivity (1 W / 1 m)	98.5 dB	92.2 dB	86.6 dB	95.4 dB
Maximum SPL	108.5 dB (10W/1 m)	100.0 dB (6 W / 1 m)	94.4 dB (6 W / 1 m)	103.2 dB (6 W / 1 m)
Frequency range (-10 dB)	167–7'800 Hz	190–12'000 Hz	270–19'000 Hz	185–20'000 Hz
Coverage angle (-6 dB) H V	360°/95°/40°/30° 360°/80°/95°/140°	145°/95°/45° 145°/95°/45°	180°/180°/105°/121° 180°/180°/105°/65°	180°/70°/110°/60° 180°/80°/100°/50°
Dimensions (W × H × D)	253 × 253 × 105 mm	195 × 195 × 80 mm	110 × 200 × 70 mm	192 × 252 × 82 mm
Housing material	ABS 757	Metal	Metal	MDF
Weight	2.5 kg	2.6 kg	1.2 kg	1.8 kg
Color	White	White RAL 9003	White	White RAL 9003
Temperature range	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C
Protection	IP44	IP44	IP44	IP44
Measurement environment	Half-space free-field	Free-field	Half-space free-field	Half-space free-field

ACCESSORIES VERSION				
EV-Version with ceramic terminal and thermal fuse	GM-4500-EV	GM-5020-EV	GM-5400-EV	GM-5600-EV
Loudspeaker 4 Ω	On request			
Loudspeaker 8 Ω			GM-5408	
Loudspeaker 100 V with integrated volume controller				GM-5600-R
Back panel	GM-4506			
Mounting bracket for light rail 60 mm	Art. Nr. 7438			
Mounting bracket for light rail 65 mm	Art. Nr. 7444			
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS

SPECIFICATIONS

Angular, weatherproof



	Shadow 105T	Shadow 108CT	Shadow 112CT	Shadow 114S
Loudspeaker system	2-Way	2-Way	2-Way	2-Way
Nominal noise power100 V	15/25/40/50 W	50/100 W	100/200 W	150/300 W
Nominal noise power8 Ω	60 W	225 W	300 W	350 W
Sensitivity (1 W/1 m)	89.0 dB	95.0 dB	98.0 dB	97.0 dB
Maximum SPL	109.0 dB	120.0 dB	124.0 dB	125.5 dB
Frequency range (-10 dB)	90–20'000 Hz	80–20'000 Hz	70–20'000 Hz	60–400 Hz
Coverage angle (-6 dB/1 m)	100° H × 100° V	90° H × 90° V	90° H × 90° V	90° H × 90° V
Dimensions (W × H × D)	168 × 222 × 200 mm	285 × 285 × 250 mm	430 × 430 × 400 mm	430 × 430 × 400 mm
Housing material	Polyethylene	Polyethylene	Polyethylene	Polyethylene
Weight	3.5 kg	7 kg	15 kg	17 kg
Color	Grey RAL 7011	Grey RAL 7011	Grey RAL 7011	Grey RAL 7011
Temperature range	-20 °C to ~60 °C	-20 °C to ~60 °C	-20 °C to ~60 °C	-20 °C to ~60 °C
Protection	IP55	IP55	IP55	IP55
Measurement enviroment	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field

ACCESSORIES VERSION				
With Stainless steel brackets and screws for indoor swimming pools		GM-108CT-V4	GM-112CT-V4	

SPECIFICATIONS

Round



	GM-4550	GM-5220	GM-6030	GM-6040
Loudspeaker system	1-Way	1-Way	1-Way Tweeter dome	2-Way Coaxial
Nominal noise power 100 V	1.5/3/6/10 W	1.5/3/6/10 W	5/10/20 W	5/10/20 W
Nominal noise power 8 Ω		10 W	20 W	20 W
Nominal impedance 100 V	6666 Ω 3333 Ω 1666 Ω 1000 Ω	6667 Ω 3333 Ω 1667 Ω 1000 Ω	2000 Ω 1000 Ω 500 Ω	2000 Ω 1000 Ω 500 Ω
Sensitivity (1 W/1 m)	94.8 dB	98.6 dB	87.2 dB	91.2 dB
Maximum SPL	104.8 dB (10 W/1 m)	108.6 dB (10 W/1 m)	100.2 dB (20 W/1 m)	104.3 dB (20 W/1 m)
Frequency range (-10 dB)	145–15'900 Hz	230–18'000 Hz	120–15'600 Hz	120–15'700 Hz
Coverage angle (-6 dB/1 m)	170° H × 170° V			
Coverage angle (-6 dB) H (0.5/1/2/4 kHz) V		180°/75°/100°/60° 180°/75°/100°/60° °	360°/220°/110°/60° 360°/220°/110°/60°	360°/200°/105°/60° 360°/200°/105°/60°
Dimensions (W × H × D)	202 × 165 × 165 mm			
Dimensions (Ø/D)		170/75 mm	138/203 mm	176/252 mm
Housing material	Metal	Metal	ABS 765A	ABS 765A
Weight	2.9 kg	1.1 kg	1.5 kg	2.4 kg
Color	White RAL 9010	White RAL 9010	White RAL 9003	White RAL 9003
Temperature range	-10 °C to ~55 °C	-20 °C to ~45 °C	-20 °C to ~60 °C	-20 °C to ~60 °C
Protection	IP55	IP44	IP55	IP55
Measurement environment	Half-space free-field	Half-space free-field	Free-field	Half-space free-field

ACCESSORIES VERSION				
EV-Version with ceramic terminal and thermal fuse	GM-4550-EV	GM-5220-EV	GM-6030-EV	GM-6040-EV
Loudspeaker 8 Ω	On request	On request	GM-6038	GM-6048
Loudspeaker 100 V, Weatherproof			GM-6030-WF	GM-6040-WF
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS

Spherical speaker



Harmonious sound distribution

Our spherical speakers are used in rooms with high ceilings, where a uniform and comprehensive sound is required. With their 360 degree coverage angle, they provide a harmonious sound coverage.

The cable length can be customised. With the range of colors available, our models can also be integrated perfectly into any environment.

SPECIFICATIONS



	GM-6250
Loudspeaker system	1-Way
Nominal noise power 100 V	5 / 10 / 20 W
Nominal noise power 8 Ω	20 W
Nominal impedance 100 V	2000 / 1000 / 500 Ω
Sensitivity (1 W / 1 m)	97.0 dB
Maximum SPL (20 W / 1 m)	110.0 dB
Frequency range (-10 dB)	185–11'000 Hz
Coverage angle (-6 dB) (0.5 / 1 / 2 / 4 kHz)	H 360° V 360° / 85° / 45° / 30°
Dimensions	\varnothing 254 mm
Weight	2.3 kg
Color	White
Temperature range	-20 °C to -45 °C
Protection	IP44
Measurement environment	Free-field

ACCESSORIES VERSION	
EV-Version with ceramic terminal and thermal fuse	GM-6250-EV
Loudspeaker 8 Ω	On request
Special colors on request	RAL, NCS

Drop-design speaker



Listening pleasure in drop-design

A combination of design and listening pleasure in one speaker – regardless of whether it hangs from the ceiling or is wall-mounted and targeted at its listeners. This powerful 2-way system provides listening pleasure even in rooms with high ceilings.

The speaker is available with a customised paint finish. The cable length and cable colour can be customised.

SPECIFICATIONS



GM-6300	
Loudspeaker system	2 Way with bass-reflex
Nominal noise power 100 V	4/8/16 W
Nominal noise power 16 Ω	32 W
Nominal impedance 100 V	2500/1250/625 Ω
Sensitivity (1 W/1 m)	89.0 dB
Maximum SPL (20 W/1 m)	102.5 dB
Frequency range (-10 dB)	73–20'000 Hz
Coverage angle (-6 dB) (0.5/1/2/4 kHz)	H 250°/130°/90°/60° V 250°/130°/90°/60°
Dimensions (\varnothing /D)	\varnothing 255 / 315 mm
Housing material	ABS 765A
Weight	3.0 kg
Color	Black or White
Temperature range	15 °C to ~35 °C
Protection	IP44
Measurement environment	Free-field

ACCESSORIES VERSION	
Version in black	GM-6300-SW
Version in white	GM-6300-WS
EV-Version with ceramic terminal and thermal fuse	GM-6300-EV
Special colors on request	RAL, NCS

Horn speakers



SPECIFICATIONS



	GM-8617	GM-8632	GM-TL-5-T6
Loudspeaker system	1-Way	1-Way	1-Way
Nominal noise power 100 V	2.5/5/10/20 W	5/10/20/30/40 W	1.5/3/6 W
Nominal noise power 8 Ω	20 W	40 W	40 W
Nominal impedance 100 V	4000 Ω 2000 Ω 1000 Ω 500 Ω	2000 Ω 1000 Ω 330 Ω 250 Ω	6666 Ω 3333 Ω 1667 Ω
Sensitivity (1 W/1 m)	104.2 dB	112.5 dB	98.4 dB
Maximum SPL	117.2 dB (20 W/1 m)	128.5 dB (40 W/1 m)	106.2 dB (6 W/1 m)
Frequency range (-10 dB)	680–6'300 Hz	180–7'000 Hz	900–12'500 Hz
Coverage angle (-6 dB)		45° (H) × 100° (V)	
Coverage angle (-6 dB) H (0.5/1/2/4 kHz) V	360°/135°/75°/40° 360°/135°/75°/40°		360°/-/60°/50° 360°/-/60°/50°
Dimensions (Ø/D)	210/275 mm		132/131 mm
Dimensions (W × H × D)		400 × 200 × 420 mm	
Weight	2.0 kg	3.9 kg	0.4 kg
Color	HellGrey	Grey	Grey RAL 7073
Temperature range	-20 °C to ~50 °C	-20 °C to ~50 °C	-20 °C to ~50 °C
Protection	IP66	IP66	IP66
Measurement environment	Free-field	Half-space free-field	Free-field

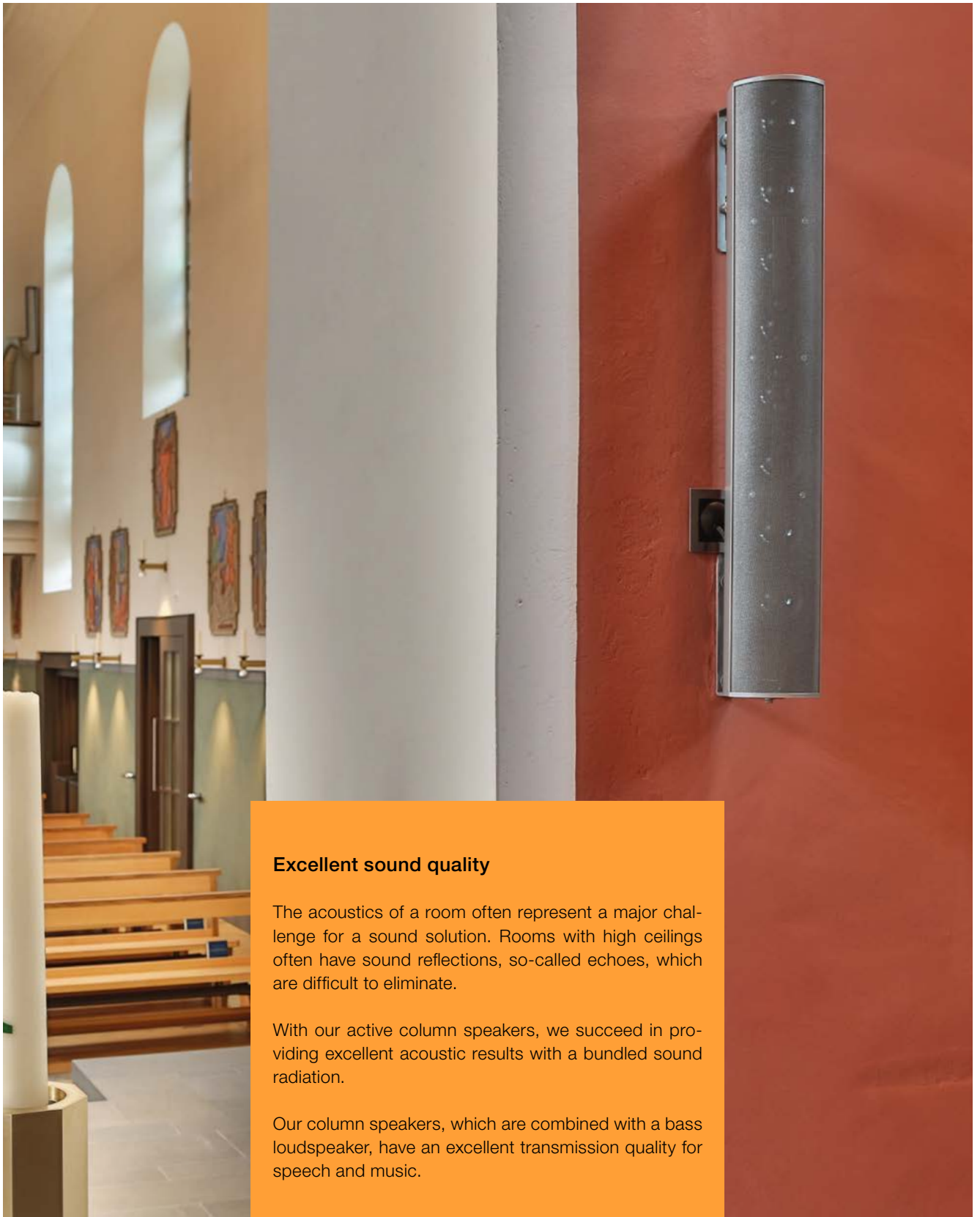
ACCESSORIES VERSION			
EV-Version with ceramic terminal and thermal fuse	GM-8617-EV		GM-TL-5-T6-EV
Mounting for masts Ø 70–210 mm			MB 1/2
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS

Whatever the weather – our products are ready

Our horn speakers must be able to be used outside in any weather – whether sun, wind or rain.

Where only intelligible clear speech is required over long distances, these are the best choice with their driver system.

Column speakers



Excellent sound quality

The acoustics of a room often represent a major challenge for a sound solution. Rooms with high ceilings often have sound reflections, so-called echoes, which are difficult to eliminate.

With our active column speakers, we succeed in providing excellent acoustic results with a bundled sound radiation.

Our column speakers, which are combined with a bass loudspeaker, have an excellent transmission quality for speech and music.

SPECIFICATIONS

Passive



	GM-6820	GM-6840	GM-6941-P	GM-6962-P
Loudspeaker system	2-Way Passive	2-Way Passive	2-Way Passive	2-Way Passive
Loudspeaker	4 × 66 mm Wideband loudspeakers	8 × 66 mm Wideband loudspeakers	8 × 80 mm Wideband loudspeakers	16 × 80 mm Wideband loudspeakers
Power adaption 100 V	5/10/20 W	10/20/40 W	12.5/25/50/100 W	20/40/80 W
Power rating 8 Ω	30 W	60 W	80 W	160 W
Nominal impedance 100 V	2000 Ω 1000 Ω 500 Ω	1000 Ω 500 Ω 250 Ω	800 Ω 400 Ω 200 Ω 100 Ω	500 Ω 250 Ω 125 Ω
Sensitivity (1 W/1 m)	92.0 dB	92.4 dB	94.0 dB	93.8 dB
Maximum SPL	105.7 dB (20 W/1 m)	111.1 dB (40 W/1 m)	114.0 dB (100 W/1 m)	112.8 dB (80 W/1 m)
Frequency range (-10 dB)	195–20'000 Hz	195–20'000 Hz	125–20'000 Hz	114–20'000 Hz
Coverage angle (-6 dB/2kHz)	170° H × 22° V	170° H × 12° V		
Coverage angle (-6 dB) H (0.5/1/2/4 kHz) V			360°/200°/100°/130° 70°/30°/20°/30°	360°/215°/117°/126° 50°/45°/24°/13°
Dimensions (W × H × D)	95 × 590 × 97 mm	95 × 940 × 97 mm	119 × 812 × 132 mm	119 × 1612 × 132 mm
Housing material	Aluminium	Aluminium	Aluminium	Aluminiumg
Mounting parts	Brackets	Brackets	Brackets	Brackets
Weight	4.5 kg	7.0 kg	8.4 kg	16.8 kg
Standard color	White RAL 9016	White RAL 9016	White RAL 9016	White RAL 9016
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS
Protection	IP54	IP54	IP54	IP54

SPECIFICATIONS

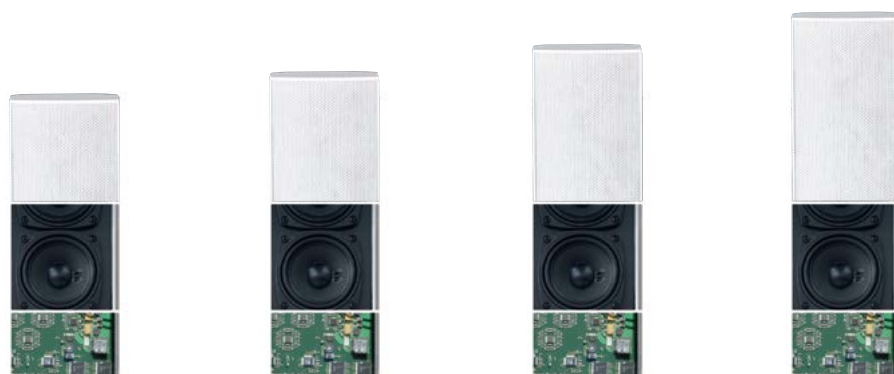
Active



	Ascolto AH1635	Ascolto AH2435	Ascolto AH3235
General specifications			
Dimensions (W × H × D)	116 × 1780 × 121 mm	116 × 2486 × 121 mm	116 × 3204 × 121 mm
Weight	8.2 kg	12.2 kg	16.2 kg
Housing material	Aluminium, powder-coated	Aluminium, powder-coated	Aluminium, powder-coated
Temperature range	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C
Standard color	White RAL 9010	White RAL 9010	White RAL 9010
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS
Protection	IP54	IP54	IP54
Certificate	CE	CE	CE
Acoustic specifications			
Frequency	80 Hz–20 kHz	80 Hz–20 kHz	80 Hz–20 kHz
SPL maximum (Nominal/Peak)	103 dB/106 dB at 10 m 100 dB/103 dB at 20 m 98 dB/101 dB at 30 m	105 dB/108 dB at 10 m 102.0 dB/105 dB at 20 m 100 dB/103 dB at 30 m 98 dB/101 dB at 40 m	105 dB/108 dB at 10 m 103 dB/106 dB at 20 m 102.0 dB/105 dB at 30 m 100 dB/103 dB at 40 m 98 dB/101 dB at 40 m
Coverage angle horizontal	130°	130°	130°
Tilting angle vertical	-60° to 60°	-60° to 60°	-60° to 60°
Coverage angle vertical	16.9° to 40°	11.9° to 40°	9° to 40°
Typical throw / Maximum throw	20 m/25 m	25 m/30 m	30 m/35 m
Dynamic range	102.0 dB	102.0 dB	102.0 dB
Loudspeaker	16 × 3.5" Full range Neodym	24 × 3.5" Full range Neodym	32 × 3.5" Full range Neodym
Sensitivity (1 W/1 m)	88.7 dB	88.7 dB	88.7 dB
Electrical specifications			
Audio Input 1 Line			
Input level nominal	0 dBu (2.19 Vpp)	0 dBu (2.19 Vpp)	0 dBu (2.19 Vpp)
Input level maximum	10 dBu (6.92 Vpp)	10 dBu (6.92 Vpp)	10 dBu (6.92 Vpp)
Type	Balanced	Balanced	Balanced
Impedance	20 kΩ at 1 kHz	20 kΩ at 1 kHz	20 kΩ at 1 kHz
Audio Input 2 100 V			
Input level	39.2 dBu (200 Vpp)	39.2 dBu (200 Vpp)	39.2 dBu (200 Vpp)
Type	Balanced with transformer	Balanced with transformer	Balanced with transformer
Impedance	20 kΩ at 1 kHz	20 kΩ at 1 kHz	20 kΩ at 1 kHz

SPECIFICATIONS

Active



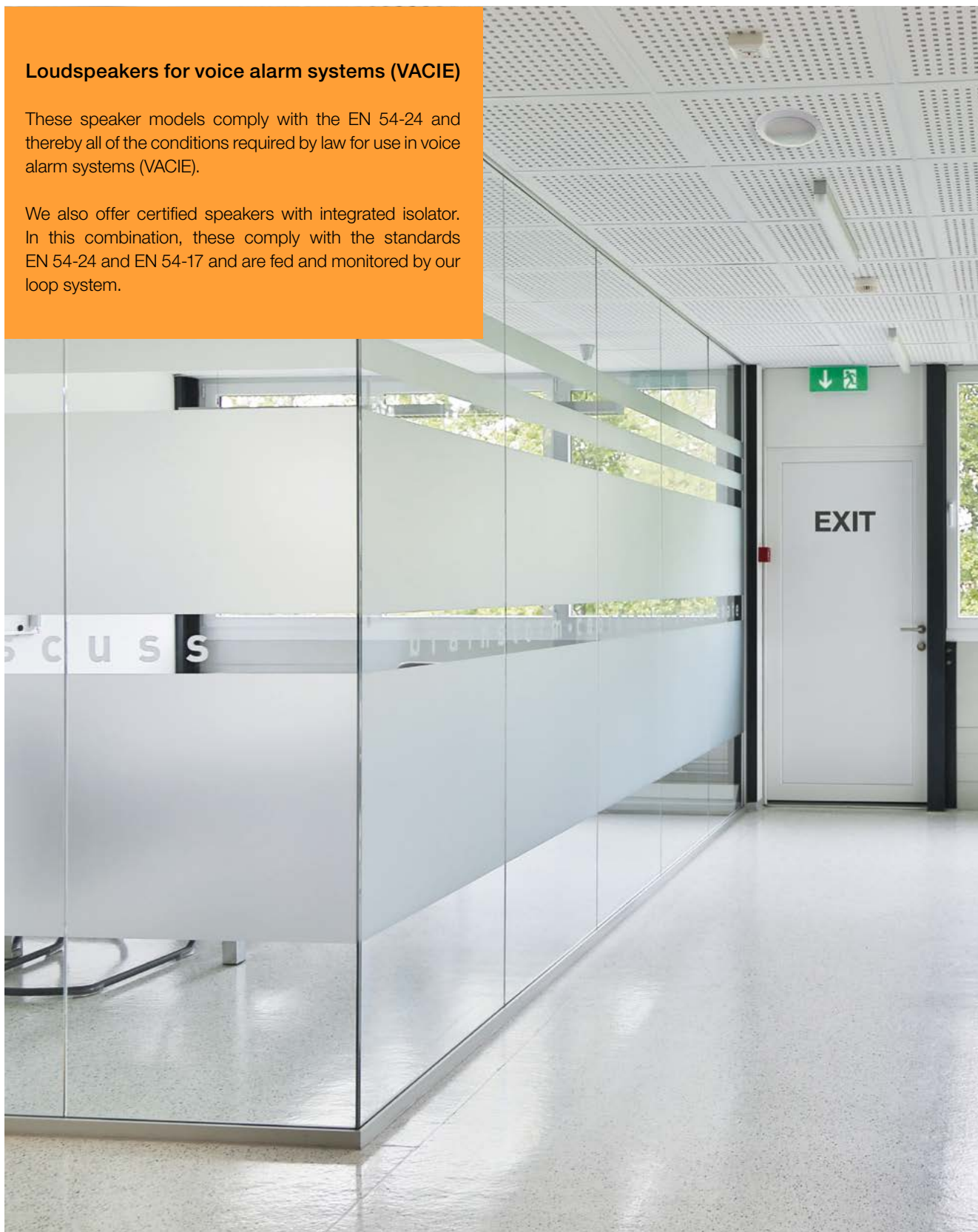
	Ascolto AH4035	Ascolto AH4835	Ascolto AH5635	Ascolto AH6435
General specifications				
Dimensions (W × H × D)	116 × 4266 × 121 mm	116 × 4972 × 121 mm	116 × 5690 × 121 mm	116 × 6408 × 121 mm
Weight	20.4 kg	24.4 kg	28.4 kg	32.4 kg
Housing material	Aluminium, powder-coated	Aluminium, powder-coated	Aluminium, powder-coated	Aluminium, powder-coated
Temperature range	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C	0 °C to 40 °C
Standard color	White RAL 9010	White RAL 9010	White RAL 9010	White RAL 9010
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS
Protection	IP54	IP54	IP54	IP54
Certificate	CE	CE	CE	CE
Acoustic specifications				
Frequency	80 Hz–20 kHz	80 Hz–20 kHz	80 Hz–20 kHz	80 Hz–20 kHz
SPL maximum (Nominal/Peak)	106 dB/109 dB at 10 m 104 dB/107 dB at 20 m 103 dB/106 dB at 30 m 100 dB/103 dB at 40 m 98 dB/101 dB at 50 m	107 dB/110 dB at 10 m 105 dB/108 dB at 20 m 103 dB/106 dB at 30 m 101 dB/104 dB at 40 m 99 dB/102.0 dB at 50 m	107 dB/110 dB at 10 m 105 dB/108 dB at 20 m 104 dB/107 dB at 30 m 102.0 dB/105 dB at 40 m 100 dB/103 dB at 50 m	108 dB/111 dB at 10 m 106 dB/109 dB at 20 m 105 dB/108 dB at 30 m 103 dB/106 dB at 40 m 101 dB/104 dB at 50 m
Coverage angle horizontal	130°	130°	130°	130°
Tilting angle vertical	-60° to 60°	-60° to 60°	-60° to 60°	-60° to 60°
Coverage angle vertical	8° to 40°	7° to 40°	6° to 40°	5° to 40°
Typical throw/Maximum throw	35 m/40 m	40 m/45 m	45 m/50 m	50 m/55 m
Dynamic range	102.0 dB	102.0 dB	102.0 dB	102.0 dB
Loudspeaker	40 × 3.5" Full range Neodym	48 × 3.5" Full range Neodym	56 × 3.5" Full range Neodym	64 × 3.5" Full range Neodym
Sensitivity (1 W/1 m)	88.7 dB	88.7 dB	88.7 dB	88.7 dB
Electrical specifications				
Audio Input 1 Line				
Input level nominal	0 dBu (2.19 Vpp)	0 dBu (2.19 Vpp)	0 dBu (2.19 Vpp)	0 dBu (2.19 Vpp)
Input level maximum	10 dBu (6.92 Vpp)	10 dBu (6.92 Vpp)	10 dBu (6.92 Vpp)	10 dBu (6.92 Vpp)
Type	Balanced	Balanced	Balanced	Balanced
Impedance	20 kΩ at 1 kHz	20 kΩ at 1 kHz	20 kΩ at 1 kHz	20 kΩ at 1 kHz
Audio Input 2 100 V				
Input level	39.2 dBu (200 Vpp)	39.2 dBu (200 Vpp)	39.2 dBu (200 Vpp)	39.2 dBu (200 Vpp)
Type	Balanced with transformer	Balanced with transformer	Balanced with transformer	Balanced with transformer
Impedance	20 kΩ at 1 kHz	20 kΩ at 1 kHz	20 kΩ at 1 kHz	20 kΩ at 1 kHz

EN 54-24

Loudspeakers for voice alarm systems (VACIE)

These speaker models comply with the EN 54-24 and thereby all of the conditions required by law for use in voice alarm systems (VACIE).

We also offer certified speakers with integrated isolator. In this combination, these comply with the standards EN 54-24 and EN 54-17 and are fed and monitored by our loop system.



SPECIFICATIONS

Round with fire dome



	GM-3305-EN5424	GM-3405-EN5424	GM-3405-7179-EN5424	GM-3430-EN5424
Loudspeaker system	1-Way	1-Way	1-Way with isolater for APS-180-LOOP	2-Way Tweeter dome
Nominal noise power 100 V	1.5/3/6 W	1.5/3/6 W	1.5/3/6 W	1.5/3/6/10 W
Nominal noise power 8 Ω	6 W	6 W	6 W	
Nominal impedance 100 V	6667 Ω 3333 Ω 1667 Ω	6666 Ω 3333 Ω 1667 Ω	6666 Ω 3333 Ω 1667 Ω	
Sensitivity (1 W/1 m)	91.3 dB	93.8 dB	93.8 dB	99.0 dB
Sensitivity (1 W/4 m)	77.9 dB	78.9 dB	78.9 dB	74.0 dB
Maximum SPL (1 m)	99.1 dB (6 W/1 m)	101.6 dB (6 W/1 m)	101.6 dB (6 W/1 m)	108.0 dB (10 W/1 m)
Maximum SPL (4 m)	85.7 dB (6 W/4 m)	86.7 dB (6 W/4 m)	86.7 dB (6 W/4 m)	92.0 dB (10 W/4 m)
Frequency range (-10 dB)	140–16'000 Hz	340–20'000 Hz	340–20'000 Hz	90–18'000 Hz
Coverage angle (-6 dB) (0.5/1/2/4 kHz)	H 180°/180°/180°/68° V 180°/180°/180°/68°	180°/180°/180°/70° 180°/180°/180°/70°	180°/180°/180°/70° 180°/180°/180°/70°	180°/180°/162°/50° 180°/180°/162°/50°
Dimensions (Ø/D)	185/120 mm	200/130 mm	200/146 mm	220/65 mm
Cutout (Ø)	165 mm	185 mm	185 mm	205 mm
Housing material	ABS 765A	Metal	Metal	Metal
Weight	0.8 kg	0.9 kg	1.3 kg	1.4 kg
Color	White RAL 9003	White RAL 9003	White RAL 9003	White RAL 9010
Temperature range	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C
Protection	IP44	IP44	IP44	IP44
Certificate		EN 54-24 (1438-CPR-0376)	EN 54-24 (1438-CPR-0376) EN 54-17 (1438/CPD/0289)	EN 54-24 (1293-CPR-0427)
Measurement environment	Half-space free-field	Half-space free-field	Half-space free-field	Half-space free-field

ACCESSORIES VERSION				
Housing		GM-3416		
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS



SPECIFICATIONS

Round with fire dome



	GM-3820-EN5424	GM-3860-EN5424
Loudspeaker system	2-Way Coaxial	2-Way
Nominal noise power 100 V	1.5/3/6 W	15 W
Nominal noise power 8 Ω		
Nominal impedance 100 V	6667 Ω 3333 Ω 1667 Ω	667 Ω
Sensitivity (1 W/1 m)	89.3 dB	94.5 dB
Sensitivity (1 W/4 m)	73.1 dB	76.8 dB
Maximum SPL (1 m)	97.1 dB (6 W/1 m)	106 dB (15 W/1 m)
Maximum SPL (4 m)	80.9 dB (6 W/4 m)	88 dB (15 W/1 m)
Frequency range (-10 dB)	93-20'000 Hz	85-18'000 Hz
Coverage angle (-6 dB) (0.5/1/2/4 kHz)	H 180°/180°/180°/70° V 180°/180°/180°/70°	180°/180°/180°/180° 180°/180°/180°/180°
Dimensions (Ø/D)	240/130 mm	280/180 mm
Cutout (Ø)	210 mm	250 mm
Housing material	ABS 757	ABS 757
Weight	2 kg	4.1 kg
Color	White RAL 9003	White RAL 9003
Temperature range	-20 °C to ~45 °C	-20 °C to ~45 °C
Protection	IP44	IP44
Certificate	EN 54-24 (1438-CPR-0387)	EN 54-24 (1438-CPR-0386)
Measurement environment	Half-space free-field	Half-space free-field

ACCESSORIES VERSION		
Housing		GM-3866
Ball protection grille		GM-3867
Spring steel clip (PU 1 pcs), 4 units for ceiling installation required	Art. Nr. 546	
Special colors on request	RAL, NCS	RAL, NCS

SPECIFICATIONS



	GM-4560-EN5424	GM-5020-EN5424	GM-5220-EN5424	GM-5600-EN5424	GM-5600-7179-EN5424
Loudspeaker system	2 × 1-Way Tweeter dome	2-Way Coaxial	1-Way	1-Way	1-Way with isolator for APS-180-LOOP
Nominal noise power 100 V	3/6/12 W	1.5/3/6 W	1.5/3/6/10 W	1.5/3/6 W	1.5/3/6 W
Nominal noise power 8 Ω		10 W	10 W	6 W	6 W
Nominal impedance 100 V		6667 Ω 3333 Ω 1667 Ω	6666 Ω 3333 Ω 1667 Ω 1000 Ω	6667 Ω 3333 Ω 1667 Ω	6667 Ω 3333 Ω 1667 Ω
Sensitivity (1 W/1 m)	96.0 dB	92.2 dB	100.6 dB	95.7 dB	95.7 dB
Sensitivity (1 W/4 m)	77.2 dB	75.5 dB	80.1 dB	79.9 dB	79.9 dB
Maximum SPL (1 m)	106.0 dB (12 W/1 m)	100.0 dB (6 W/1 m)	110.6 dB (10 W/1 m)	103.5 dB (6 W/1 m)	103.5 dB (6 W/1 m)
Maximum SPL (4 m)	90.5 dB (12 W/4 m)	89.3 dB (6 W/4 m)	89.2 dB (10 W/4 m)	87.6 dB (6 W/4 m)	87.6 dB (6 W/4 m)
Frequency range (-10 dB)	70–16'000 Hz	190–18'000 Hz	225–22'200 Hz	170–20'000 Hz	170–20'000 Hz
Coverage angle (-6 dB) (0.5/1/2/4 kHz)	H 360°/360°/360°/35° V 360°/360°/360°/35°	145°/95°/45° 145°/95°/45°	180°/180°/102.5°/65° 180°/180°/102.5°/65°	180°/70°/110°/60° 180°/80°/100°/50°	180°/70°/110°/60° 180°/80°/100°/50°
Dimensions (Ø/D)	146/186 mm Socle width 175 mm		170/75 mm		
Dimensions (W × H × D)		195 × 195 × 80 mm		192 × 252 × 82 mm	192 × 252 × 82 mm
Housing material	Aluminium	Metal	Metal	MDF	MDF
Weight	3.2 kg	2.6 kg	1.2 kg	1.8 kg	1.9 kg
Color	White RAL 9010	White RAL 9003	White RAL 9010	White RAL 9003	White RAL 9003
Temperature range	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C
Protection	IP 55	IP44	IP44	IP44	IP44
Certificate	EN 54-24 (1293-CPD-0271)	EN 60268-5 EN 54-24 (1438-CPR-0487)	EN 54-24 (1438-CPD/0245)	EN 54-24 (1438-CPR-0377)	EN 54-24 (1438-CPR-0377) EN 54-17 (1438-CPD/0289)
Measurement environment	Free-field	Free-field	Half-space free-field	Half-space free-field	Half-space free-field

ACCESSORIES VERSION					
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS



SPECIFICATIONS



	GM-6030-EN5424	GM-6040-EN-5424	GM-6260-EN-5424	GM-8617-EN5424
Loudspeaker system	1-Way Tweeter dome	2-Way Coaxial	2-Way	1-Way
Nominal noise power 100 V	5/10/20 W	5/10/20 W	10/20/30 W	2.5/5/10/20 W
Nominal noise power 8 Ω	20 W	20 W		20 W
Nominal impedance 100 V	2000 Ω 1000 Ω 500 Ω	2000 Ω 1000 Ω 500 Ω		4000 Ω 2000 Ω 1000 Ω 500 Ω
Sensitivity (1 W/1 m)	87.2 dB	91.2 dB	102.5 dB	105.8 dB
Sensitivity (1 W/4 m)	77.1 dB	80.0 dB	80.0 dB	90.4 dB
Maximum SPL (1 m)	100.2 dB (20 W/1 m)	104.3 dB (20 W/1 m)	115.0 dB (30 W/1 m)	118.8 dB (20 W/1 m)
Maximum SPL (4 m)	90.2 dB (20 W/4 m)	93.1 dB (20 W/4 m)	96.0 dB (30 W/4 m)	103.4 dB (20 W/4 m)
Frequency range (-10 dB)	120–8'600 Hz	120–8'700 Hz	70–20'000 Hz	699–5'531 Hz
Coverage angle (-6 dB) (0.5/1/2/4 kHz)	H 360°/220°/110°/60° V 360°/220°/110°/60°	360°/200°/105°/60° 360°/200°/105°/60°	188°/325°/106°/66° 188°/325°/106°/66°	360°/135°/75°/40° 360°/135°/75°/40°
Dimensions (Ø/D)	138/203 mm	176/252 mm	220 mm	210/275 mm
Housing material	ABS 765A	ABS 765A	Metal	ABS 757
Weight	1.5 kg	2.4 kg	2.4 kg	2.0 kg
Color	White RAL 9003	White RAL 9003	White RAL 9010	Light grey
Temperature range	-20 °C to -60 °C	-20 °C to -60 °C	-20 °C to ~45 °C	-20 °C to ~50 °C
Certificate	EN 54-24 (1438-CPR-0381)	EN 54-24 (1438-CPR-0380)	EN 54-24 (1293-CPR-0430)	EN 54-24 (1438-CPR-0379)
Protection	IP55	IP55	IP44	IP66
Measurement environment	Free-field	Free-field	Free-field	Free-field

ACCESSORIES VERSION				
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS	RAL, NCS

EN 54-24 A/B



A/B line loudspeaker for voice evacuation systems

A/B line loudspeakers for voice evacuation systems are certificated after norm EN 54-24 and offer maximum security for voice evacuation projects. With failure of a line the area is fitted with loudspeakers by the loudspeaker redundancy furthermore permanently. With every installation position the A-as well as the B line exist and avoid with it a failure situation.

The loudspeakers are equipped with ceramic clip, thermo protection and a cable resistant to temperature, the raised functional security is thereby fulfilled in the fire case. Besides, the installation loudspeakers are equipped with a fire dome.



	GM-3440-EN5424-AB	GM-4560-EN-5424-AB	GM-5610-EN-5424-AB
Loudspeaker system	2 × 1-Way	2 × 1-Way	2 × 1-Way Tweeter dome
Nominal noise power 100 V	1.5/3/6 W	3/6/12 W	1.5/3/6 W
Sensitivity (1 W/1 m)	99.0 dB	95.0 dB	100.0 dB
Sensitivity (1 W/4 m)	73.0 dB single 79.0 dB double	70.0 dB single 76.0 dB double	74.1 dB single 80.1 dB double
Maximum SPL (6 W/1 m)	106.0 dB	105.0 dB (12 W/1 m)	107.0 dB (6 W/1 m)
Maximum SPL (4 m)	81.0 dB (6 W/4 m) single 87.0 dB (6 W/4 m) double	83.0 dB (12 W/4 m) single 89.0 dB (12 W/4 m) double	84.9 dB (6 W/4 m) single 90.1 dB (6 W/4 m) double
Frequency range (-10 dB)	120–20'000 Hz	80–17'000 Hz	80–16'000 Hz
Coverage angle (-6 dB) (0.5/1/2/4 kHz)	H 180°/180°/132°/71° V 180°/180°/132°/71°	360°/335°/108°/85° 360°/335°/108°/85°	180°/85°/128°/80° 180°/108°/109°/74°
Dimensions (W × H × D)			230 × 170 × 80 mm
Dimensions (Ø/D)	240/108 mm	146/186 mm, Socle width 175 mm	
Cutout (Ø)	220 mm		
Housing material	Metal	Aluminium	ABS
Weight	1.9 kg	3.5 kg	1.4 kg
Color	White RAL 9010	White RAL 9010	White RAL 9003
Temperature range	-20 °C to ~45 °C	-20 °C to ~45 °C	-20 °C to ~45 °C
Certificate	EN 54-24 (1293-CPD-0368)	EN 54-24 (1293-CPR-0431)	EN 54-24 (1293-CPD-0232)
Protection	IP44	IP55	IP44
Measurement environment	Half-space free-field	Free-field	Free-field

ACCESSORIES VERSION			
Housing	GM-3446		
Special colors on request	RAL, NCS	RAL, NCS	RAL, NCS

Acoustics | Clocks | Evacuation



g+m elektronik ag
CH-9245 Oberbüren
T +41 71 955 90 10
F +41 71 955 90 20

g+m elektronik ag
CH-5504 Othmarsingen
T +41 62 896 02 08
F +41 62 896 02 68

g+m elektronik ag
CH-1607 Palézieux
T +41 21 791 63 06
F +41 21 791 63 08

Swiss Systems B.V.
NL-4206 CC Gorinchem
T +31 (0)183 513 153
F +31 (0)842 105 651

g+m électronique S.A.R.L.
F-21202 Beaune Cedex
T +33 (0)3 802 50 551
F +33 (0)3 802 50 552



International Partners:
<http://www.gm-elektronik.ch/gm-subsidiariesagents>

gm-elektronik.swiss