



Certified
EN 54-24: 2008

**ITEC NEODYMLINE A/B-WP/54-24
UNIDIRECTIONAL REDUNDANT
HIGHPOWER SPEAKER-ARRAY**

Tested acc. to EN 54-24

Type: B **CE**

Manufactured by

ITEC Tontechnik und

Industrietechnik GmbH

8200 Laßnitzthal 300

Austria / Europe



**DOC. 001/2015_NEODYMLINE A/B-WP/54-24
1293-CPR-0503**



Mod.1) 0° Mod.2) -5°

Environmental Type:	B
Termination	inside terminal post
Rated Noise Voltage:	100 V
Rated Noise Power	2x50W transformer
Power Setting:	50/25/12,5/6,25
Driver 3" cone:	8
Weight	5,9 kg
Dimensions (W x H x L):	100 x 967 x 100 mm
IP-rating	33
Material/Color	welded aluminium / powder coated RAL 9010, RAL 9011 or customized
Sensitivity for the stated reference axis:	(Pink noise total 1W/4m) 81 dB/channel
Maximum sound pressure level:	(Pink noise total 50W/4m) 97,12 dB/channel

- dual channel high-power column loudspeaker system loaded with 2x4 3" neodymium transducers
- 2 channel fullrange system
- Highest sound pressures even at very small dimensions
- Perfect sound in acoustically challenging areas
- Perfect speech intelligibility in reverberant rooms

The ITEC NEODYMLINE A/B-WP/54-24 is a 2-channel (A/B) high-power passive column loudspeaker system with best performance in respect of speech intelligibility and music reproduction in difficult conditions.

Due to the placement of the 2x4x3" neodymium transducers, the vertical pattern is perfect even for reverberant rooms - less reflections onto ceilings. Developed for areas of public life, where security is the highest bid certified quality assurance ensuring consistent performance at continuous operation for decades. The optical integration of the NeodymLine - Series is very simple, because of the slim and elegant design. The build in 50 VA transformers provides high quality audio performance.

Fields of application: airports, railway stations, malls, industrial buildings, architectural buildings (glass), house of worship, conference rooms, historical building, etc.

Acoustical measurement environment:	free field
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**Frequency response for each stated reference axis:
(Sensitivity 100Hz-10kHz 1/3 Oct. Pink noise total 1W/4 Meters)**

Mod.1) 0° channel A					
frequency	dB	frequency	dB	frequency	dB
100 Hz	39,58	125 Hz	40,82	160 Hz	48,39
200 Hz	53,08	250 Hz	60,98	315 Hz	60,48
400 Hz	60,38	500 Hz	64,95	630 Hz	67,46
800 Hz	70,21	1000 Hz	70,02	1250 Hz	70,33
1600 Hz	70,10	2000 Hz	70,10	2500 Hz	69,17
3150 Hz	66,81	4000 Hz	69,29	5000 Hz	71,87
6300 Hz	67,66	8000 Hz	73,55	10000 Hz	73,60

Mod.1) 0° channel B					
frequency	dB	frequency	dB	frequency	dB
100 Hz	36,02	125 Hz	40,45	160 Hz	45,52
200 Hz	52,14	250 Hz	58,85	315 Hz	60,36
400 Hz	61,22	500 Hz	65,64	630 Hz	66,60
800 Hz	69,37	1000 Hz	71,86	1250 Hz	70,18
1600 Hz	69,15	2000 Hz	70,49	2500 Hz	69,11
3150 Hz	66,82	4000 Hz	69,17	5000 Hz	72,00
6300 Hz	67,78	8000 Hz	73,39	10000 Hz	73,75

Frequency response for each stated reference axis:
(Sensitivity 100Hz-10kHz 1/3 Oct. Pink noise total 1W/4 Meters)

Mod.2) -5° channel A					
frequency	dB	frequency	dB	frequency	dB
100 Hz	39,68	125 Hz	40,88	160 Hz	48,15
200 Hz	52,80	250 Hz	61,48	315 Hz	60,14
400 Hz	60,28	500 Hz	64,56	630 Hz	67,02
800 Hz	69,91	1000 Hz	69,85	1250 Hz	69,79
1600 Hz	69,66	2000 Hz	69,98	2500 Hz	68,90
3150 Hz	65,94	4000 Hz	68,46	5000 Hz	71,26
6300 Hz	67,12	8000 Hz	72,55	10000 Hz	72,65

Mod.2) -5° channel B					
frequency	dB	frequency	dB	frequency	dB
100 Hz	34,62	125 Hz	39,38	160 Hz	45,48
200 Hz	51,61	250 Hz	57,32	315 Hz	59,46
400 Hz	61,27	500 Hz	65,68	630 Hz	66,62
800 Hz	68,94	1000 Hz	71,80	1250 Hz	70,36
1600 Hz	69,22	2000 Hz	69,56	2500 Hz	68,73
3150 Hz	66,27	4000 Hz	69,40	5000 Hz	71,51
6300 Hz	67,19	8000 Hz	71,54	10000 Hz	72,74

Horizontal / Vertical coverage angles: Mod.1) 0°

frequency	horizontal		vertical	
	channel A	channel B	channel A	channel B
500 Hz	360	360	137	128
1 kHz	326	323	162	172
2 kHz	155	178	34	34
4 kHz	206	206	17	16

Horizontal / Vertical coverage angles: Mod.2) -5°

frequency	horizontal		vertical	
	channel A	channel B	channel A	channel B
500 Hz	360	360	137	140
1 kHz	326	192	162	137
2 kHz	155	162	34	33
4 kHz	206	200	17	18

Rated impedance per channel:

power	impedance
50 W	194 Ω
25 W	361 Ω
12,5 W	699 Ω
6,25 W	1377 Ω

Active EQ is required:

frequency	dB
1600	-4
2000	-2

Mounting accessories



Mounting bracket standard (short)

Dimensions: 9 x 6.5 cm

Mounting bracket long (optional)

Allows greater tilt of the sound column; Dimensions: 18.5 x 13.5 cm

Swing & tilt mounting (optional)

black/white

Wall mount bracket (optional)

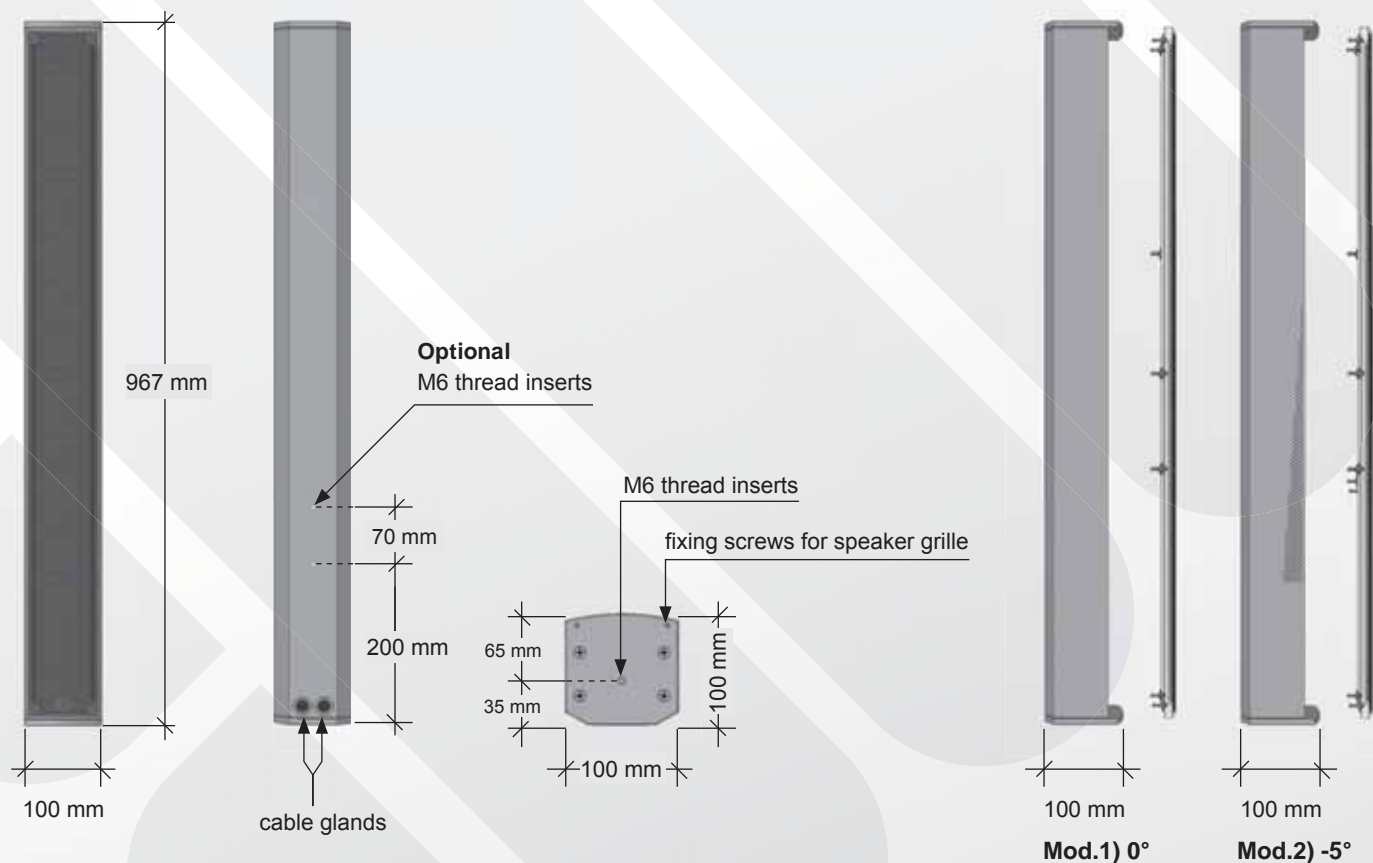
Terminal



Terminal (standard)

Connection terminal covered by metal plate (Ceramic Terminal + thermal fuse) incl. cable entry clamp with stress relief

Ceramic terminal (optional)



Installation, Operation, Maintenance

To avoid injury or damage, always make sure to mount the speakers securely.

Make sure that all amplifiers are switched off and all controls are turned down before connecting the speaker systems. Please pay attention on the connection to the transformer board and make sure that the polarity of the speakers is correct (also at the amplifier).

After connecting all systems cross-check the wiring with a phase checker. Make sure that the rated sum power of the speakers do not exceed the output power of the 100 V amplifier!

Do not open the loudspeaker during operation.

Fix the rigid or swing and tilt bracket onto wanted position.

Unscrew the 4 fixing screws of the speaker grille, on the top and bottom lid and remove the grille.

Remove the metal plate, which is covering the connection terminal (2 screws).

Lead cable through the cable gland and connect to terminal (50/25/12,5/6,25 W).

Fasten the connection terminal cover and fix the speaker with two M6 screws into the thread inserts. Screw in the 4 fixing screws for the speaker grille. For optimum performance, always use the correct voltage, power and operate within the frequency limits as specified.

Subject to technical changes