



Certified
EN 54-24: 2008

ITEC NEODYMLINE 16/100V/WP/54-24 SPEAKER SYSTEMS



Tested acc. to EN 54-24
Type: B **CE**
Manufactured by
ITEC Tontechnik und
Industrieelektronik GesmbH
8200 Laßnitzthal 300
Austria / Europe

DOC. 003/2012_NL16
1293-CPD-0297

 **ITEC**
www.itec-audio.com



Environmental Type:	B
Termination	Inside screw terminal
Rated Noise Voltage:	100 V
Rated Noise Power	100 W
Power Setting:	100 / 25 / 12,5 / 6,25 W
Driver:	16 x 3" cone neodymium
Weight	10,8 kg
Dimensions (W x H x D):	100 x 1918 x 100 mm
IP-rating	min 33
Material/Color	welded aluminium / powder coated RAL 9010, RAL 9011 or customized
Mounting	powder coated rigid bracket / swing and tilt bracket
Sensitivity for the stated reference axis:	82 dB (Pink noise total 1W/4 Meters)
Maximum sound pressure level:	101 dB (Pink noise total 100W/4 Meters)

- 4-way high-power column loudspeaker system loaded with 16 x 3" neodymium transducers
- passive crossover network unit
- Highest sound pressures even at very small dimensions
- Perfect sound in acoustically challenging areas
- Perfect speech intelligibility in reverberant room
- Integrated power switch (100 / 50 / 25 / 12,5 W)

The ITEC NeodymLine 16 is a 4-way 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 16x3" neodymium transducers and frequency crossover, 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 built-in 100 VA Transformer 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)

frequency	dB	frequency	dB	frequency	dB
100 Hz	61	125 Hz	60	160 Hz	66
200 Hz	64	250 Hz	70	315 Hz	72
400 Hz	71	500 Hz	71	630 Hz	69
800 Hz	68	1000 Hz	71	1250 Hz	70
1600 Hz	70	2000 Hz	70	2500 Hz	70
3150 Hz	67	4000 Hz	65	5000 Hz	62
6300 Hz	64	8000 Hz	66	10000 Hz	66

Horizontal / Vertical coverage angles:

frequency	horizontal	vertical
500 Hz	360	92
1 kHz	314	41
2 kHz	145	23
4 kHz	179	18

Rated impedance for each tapping:

Power	Impedance
100 W	100 Ω
50 W	200 Ω
25 W	400 Ω
12,5 W	800 Ω

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

Terminal

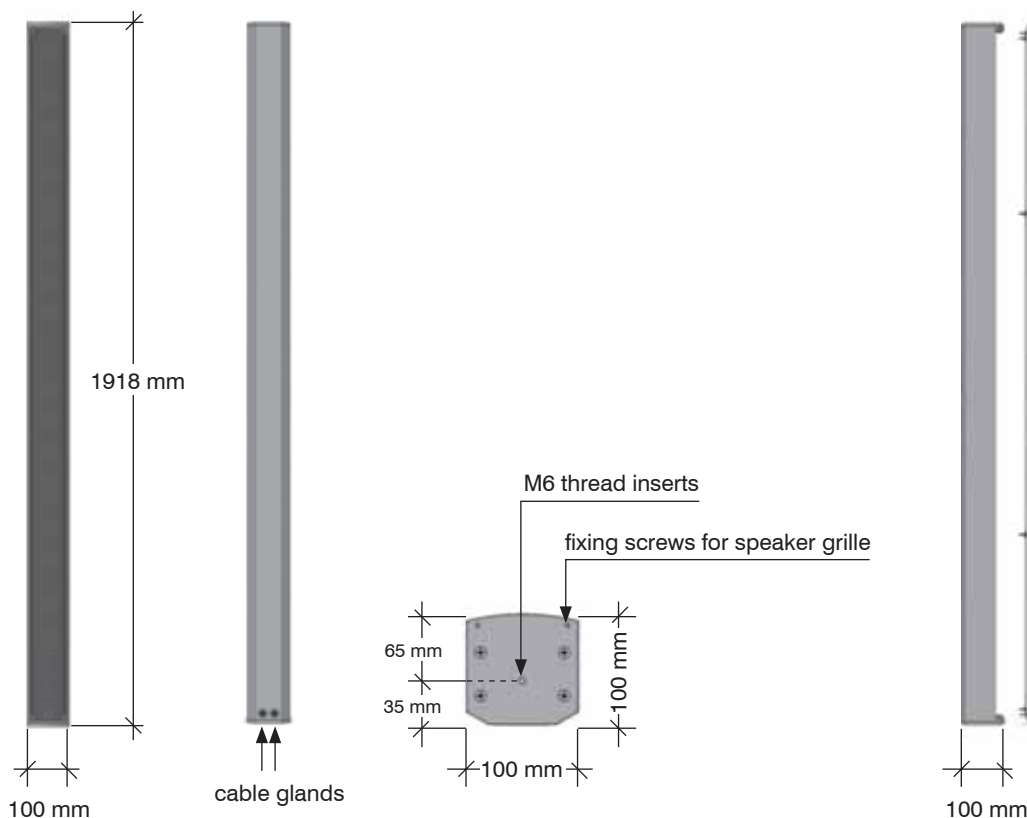


Terminal (standard)

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 (100/50/25/12,5 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