



COMPACT HORN LOUDSPEAKER

APH10T/ENC



This compact, weatherproof horn speaker, specially designed for high sound reinforcement, is made of a UV-resistant, reinforced ABS plastic and has an epoxy-coated U-bracket made of stainless steel combined with a high sound pressure, it is specially designed for the reproduction of voice announcements and / or signal warnings. The loudspeaker is resistant to saline air, most non-corrosive substances and many chemicals. Therefore, e.g. can also be used in marine or industrial applications and is ideally suited for indoor and outdoor use.



EN54-24:2008
0905-CPR-201108
TYPE B

● Standard	Compliant to EN54-24 Compliant to BS5839:8
● Electrical	
Rated power, Watts	10
Tappings 100 Volt line, Watts	10/5/2.5/1.25
Transformer Impedance, Ohms 100 Volt	1k/2k/4k/8k
Tappings 70.7 Volt line, Watts	5/2.5/1.25/0.625
Driver impedance, Ohms	8
Effective Frequency Range, Hz (BSEN60268-5)	340-16.000
S.P.L. @ 1 m, 1 Watt, dB, Octave, 100 Hz-10 kHz	105
S.P.L. @ 1 m, Full power, dB, Octave, 100 Hz-10 kHz	115
S.P.L. @ 4 m, 1 Watt, dB, 1/3 Octave, 100 Hz-10 kHz	91
S.P.L. @ 4 m, Full power, dB, 1/3 Octave, 100 Hz-10 kHz	97
Dispersion at 1k/2k Hz, Degrees	139/74 Horizontal 173/96 Vertical
● Environmental	
IP-rating	66
Min/Max amb temp	-25°C to 70°C
Relative humidity	≤95%
● Mechanical	
Dimensions, WxHxD mm	172x131x227
Net weight, kg	1.6
Colour (Unless Specified)	Grey, RAL7035
Material	UL-94V0 Plastic, UV resistant
Mounting	Stainless Steel U bracket and hardware
Safety	Ceramic Block Thermal Fuse Capacitor for DC line monitoring



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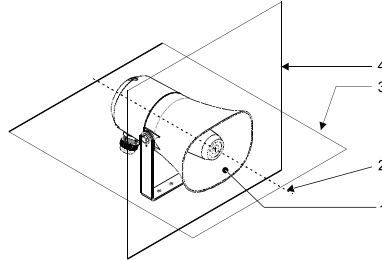
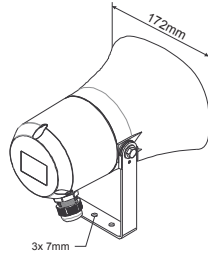
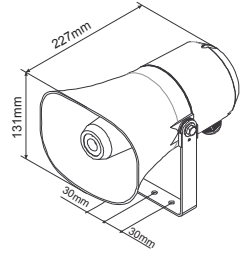
PENTON

INSTALLATION GUIDE

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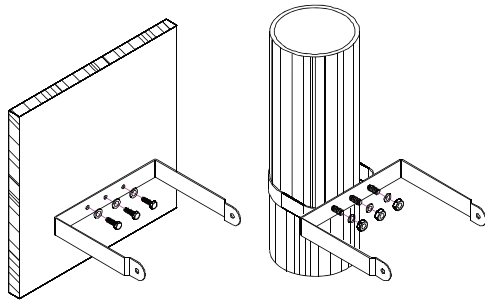
With Transformer:
100V/70V line



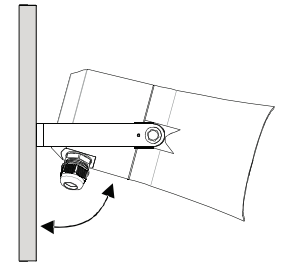
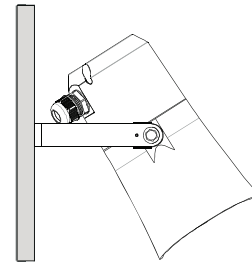
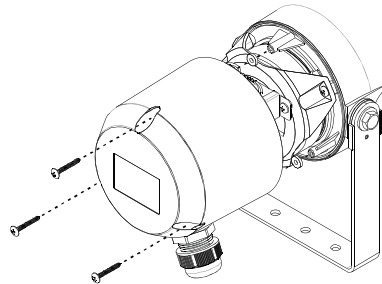
1. Loudspeaker enclosure
2. Reference axis
3. Reference plane
4. Horizontal plane

	White wire plus tapping				Black
100V	1.25W	2.5W	5W	10W	COM
70V	0.625W	1.25W	2.5W	5W	COM
IMP.(Ω)	8K	4K	2K	1K	

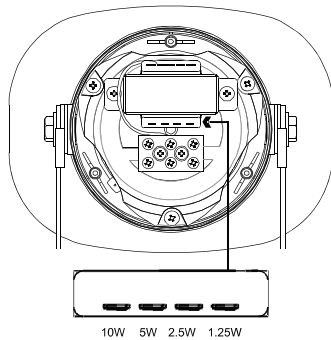
2) On removing the back lid of the horn you will observe a 3 way ceramic terminal block that is connected to the 100 volt line transformer. To select the required tapping look at the top of the transformer, you will find a selection of taps from 10 watts to 1.25 watts. To change the tapping move the female connector (white) located on the transformer to the appropriate male spade terminal. The white lead also contains a thermal fuse for circuit protection in the event of a fire.



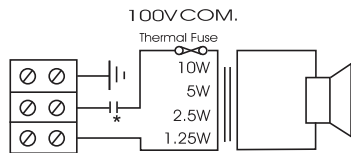
1) Remove the "U" bracket from the speaker. Align the bracket and mark the fixing points. Fix the bracket using suitable fixings (Not supplied).



- 5)** Re-fit the speaker to the "U" bracket. Position the speaker to the desired angle then tighten the fixings to secure in place.
- 6)** Before connecting the speaker circuit to the power amplifier we strongly advise that the impedance of the circuit is checked to ensure it is fault free in order to prevent damage to the speaker and or amplification.

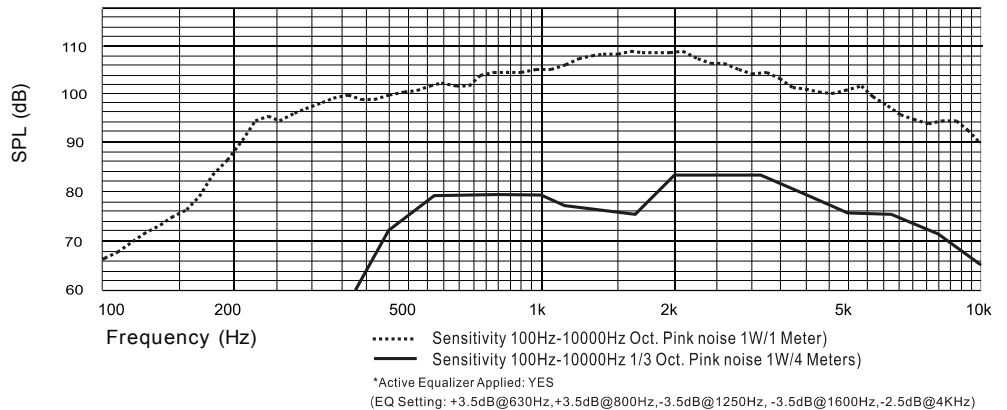


- 3)** On selecting the required tapping the installation cable can be fitted via a suitably rated gland into the 20mm gland entry provided on the back lid.
- 4)** Around the inner section of the chamber where the back lid was removed a rubber gasket is located; please make sure that it is in place when re-fitting the back lid to avoid water penetration. There is a fibreglass sleeve covering the central mounting bolt, it is important that this cover is used as it protects the transformer.



APH10T/ENC
 *with capacitor
Circuit Diagram

Frequency response



Disclaimer: We reserve the right of changes and errors.



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