

Extruded Aluminium Projector Loudspeaker

PS10/TM
PS20/TM



DESCRIPTION:

HEINRICH projector loudspeakers PS20/TM and PS10/TM deliver quality audio in constant-voltage systems. These speakers features twin cones with a full range of 5" 1/4 speaker. Units are rear-sealed via silicone rubber-like gaskets and gland nuts.

APPLICATION:

The fashionable European-styled PS Series projects a strong precision-like appearance, while having a frequency response ideal for background music or voice communication. The PS10/TM & PS20/TM are designed to be mounted indoors in malls, restaurants, sporting venues, parking facilities, transportation terminals, food centres and hotel / motel applications, as well in outdoor situations to best take advantage of its sealed housing and stainless steel hardware. It comfortably reproduces music or traditional paging in commercial facilities like shopping centres, country clubs, park areas, restaurants as well as industrial, institutional and military installations.

PHYSICAL CONSTRUCTION:

The PS10/TM & PS20/TM uses a polypropylene cone for use in indoor & outdoor environments. Both offer long-term reliability and even coverage. They are finished in white with matching aluminium, "U" brackets and aluminium grilles. Housings can be painted using epoxy paint.

The 'TM' version can be supplied as per BS5839 - Part 8 voice alarm compliant — this means a ceramic terminal and thermal fuse shall be fitted to comply with the mentioned standards.

ACOUSTIC MODELING:

The PS20/TM and PS10/TM speakers support EASE, CATT and ULYSSES models for acoustical studies. This means the acoustic models can be created to simulate the sound quality and distribution prior to installation. As per BS5839 - Part 8, EN60849 and NFPA72, a minimum of 0.5 RaSTI is required to achieve the required intelligibility.

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APPROVALS & STANDARDS:

All HEINRICH loudspeakers have undergone tough testing procedures to ensure that all products can operate at their rated power in compliance with IEC60268 - Part 5. In addition, the fire-rated products have undergone actual fire tests to ensure compliance with BS5839 - Part 8. The PS10/TM and PS20/TM comply with BS5839 - Part 8, and are IP65 rated according to IEC60529.

ARCHITECT & ENGINEERING SPECIFICATION:

Heinrich's PS10/TM unit shall comprise of 130mm dual-cone loudspeaker and a factory-mounted 10watt 100V line transformer and Heinrich's PS20/TM unit shall comprise of 130mm dual-cone loudspeaker and a factory-mounted 20watt 100V line transformer. The loudspeaker enclosure shall be constructed of high-grade extruded aluminium with an epoxy-coated steel mesh grille that covers the drive unit. The mounting will be via a "U" shaped aluminium bracket. Cable entry shall be via a single gland, mounted on a removable plate at the rear of the loudspeaker.

3D Exploded View

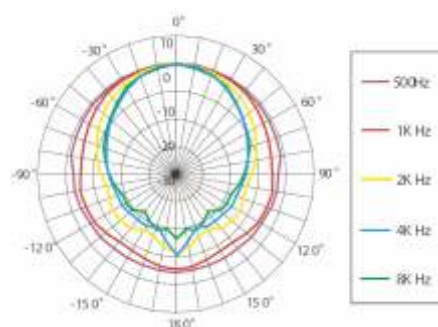
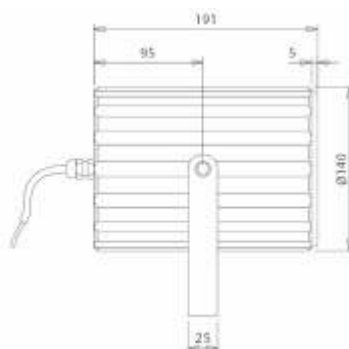
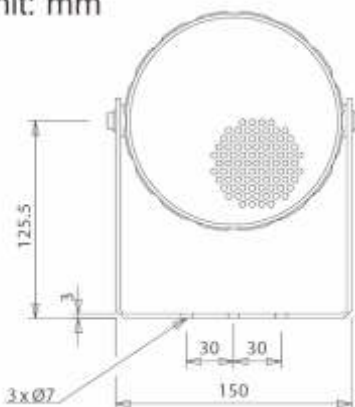


Front View

Side View

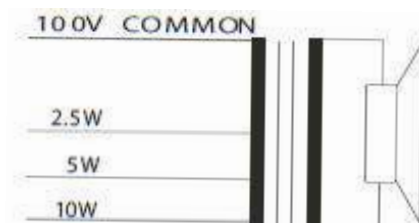
Polar Diagram PS10/TM

unit: mm



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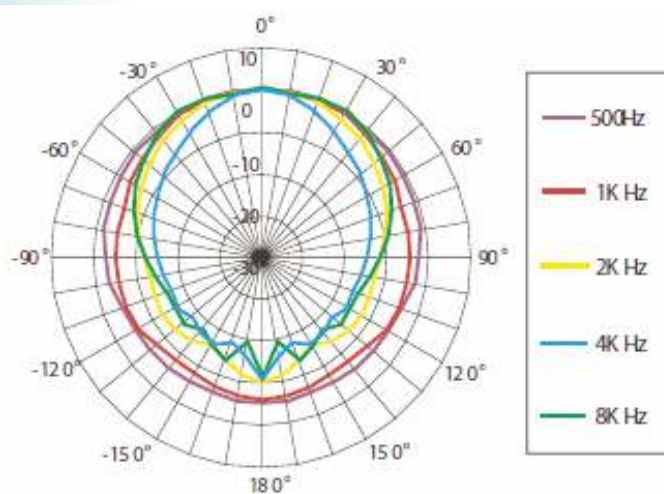
Circuit Diagram PS10/TM



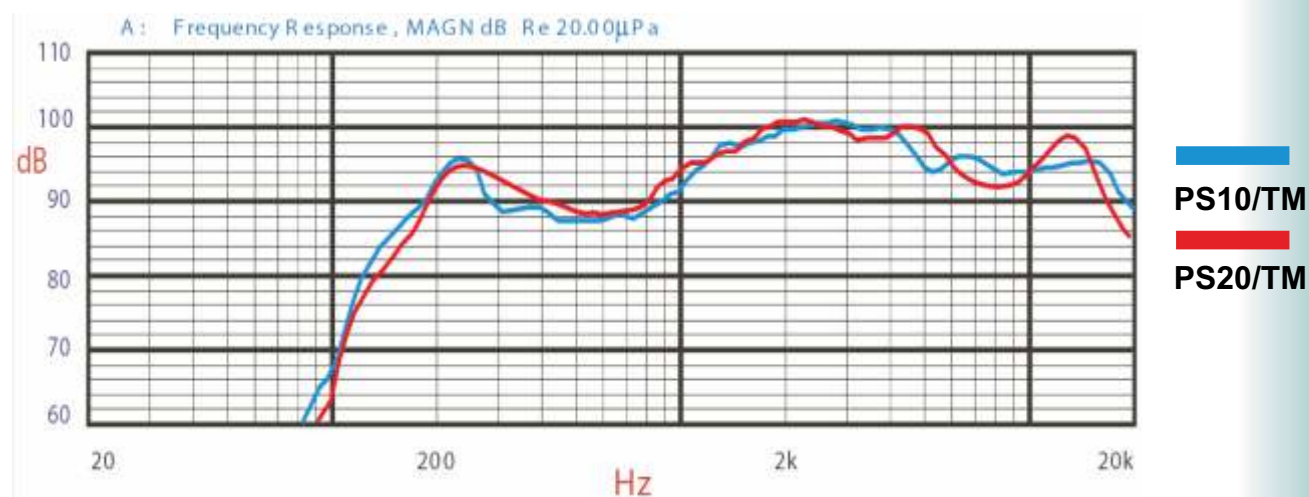
Circuit Diagram PS20/TM



Polar Diagram PS20/TM



Frequency Response



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SPECIFICATION:

Model	PS10/TM	PS20/TM
Rated Power (Watts)	10W	20W
Tapping @100V Line, Watts	10W / 5W / 2.5W	20W / 10W / 5W
Tapping @70.7V Line, Watts	5W / 2.5W / 1.25W	10W / 5W / 2.5W
Transformer Impedance (Ω) @100V	1K / 2K / 4K	500 / 1K / 2K
Driver Impedance (Ω)	8 Ω	8 Ω
Effective Frequency Range, Hz	120Hz ~ 18,000Hz	110Hz ~ 20,000Hz
SPL @1M/1W, dB, Test Signal Bandwidth 100Hz-10KHz	91	99.5
Acoustic Power (dB-PWL@1W) 1K/2KHz, dB	87 / 90	87 / 97
Dispersion @1K/2KHz, Degree	180 / 120	180 / 120
Directivity Axial Q Factor, 1K/2KHz	2.80 / 5.90	2.6 / 5.9
Dimensions, Diameter, mm	Ø140 x 191	Ø140 x 191
Net Weight	2Kg	2.4Kg
Color/Finish	White RAL9016	White RAL9016
Material	Aluminium with stainless Steel Hardware	Aluminium with stainless Steel Hardware
Mounting	Aluminium "U" Bracket	Aluminium "U" Bracket

Disclaimer: As per our company policy one of the constant product improvements the right is there for reserved to modify the product specification without prior notice and the picture shown in the datasheet is a design base, the actual picture may vary.