

Model BS-20Wus**● General description**

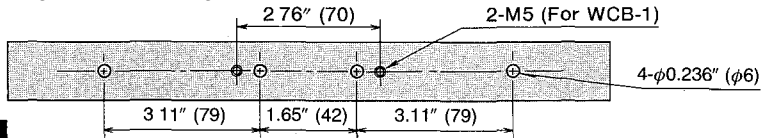
The TOA BS-20W is a splashproof type speaker system and incorporates a 5.2 inch (13cm) woofer and a piezo driver unit with constant directivity (CD) horn ensuring a uniform sound dispersion pattern (30° horizontally and 90° vertically) especially for railway station platform application.

Its sealed type of enclosure made of ABS resin and finished painting for protection of ultraviolet rays assures splashproof capabilities, and also its speaker unit is waterproof.

Applications include high humidity/temperature areas as well as outdoors or under the eaves where the speaker is likely to be exposed to rain.

● Installation

Dimensional diagram for mounting the bracket

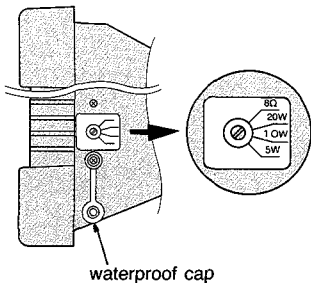


Precaution

The speaker weight 8.0 lbs. (3.6 kg).

If you fear that the ceiling or the beam will not stand the speaker weight, install the speaker after fully supporting with reinforcement at installation places.

● Changing the wattage (impedance)



- ① Remove the waterproof cap at the side where the woofer is attached.
- ② Select the desired impedance (wattage) by rotating the rotary switch with a flat head screwdriver.
- ③ After setting the impedance, be sure to replace the cap as it keeps the speaker splashproof.
(Any change in impedance maintains the siren sound pressure level 90dB/m or better.)

Impedance	980Ω	490Ω	245Ω	8Ω
Wattage	5W	10W	20W	CONT.PGM 60W

※ The BS-20W is factory-wired to 20 W (245 Ω).

(70V line)

※ Polarities: black (HOT), white (COLD).

● Specifications and Characteristic diagrams

Type:

Sealed type

Speaker for Mid/Low frequency:

One 5.2 in. (13cm) dia. splashproof cone speaker

Speaker for High frequency:

CD horn (30° horizontal by 90° vertical) plus splashproof piezo driver unit

Rated power input:

20W (Cont.PGM 60W at 8 ohms)

Nominal impedance:

245Ω (20W), 490Ω (10W) and 980Ω (5W), 8Ω

Output sound pressure level:

94dB/w/m

Siren sound pressure level

(Siren SPL classification):

90dB or better (1w/1m), Code "A"

Frequency response:

100 Hz ~ 20 kHz

Ambient temperature:

-4°F ~ +131°F (-20°C ~ +55°C)

Material & Finish:

- Enclosure: ABS resin, paint
- Ratching net/fixing angle: Zinc-coated steel plate, paint
- Angle bolts: Stainless steel

Dimensions:

13.5(W)x7.9(H)x6.9(D) in.

342(W)x200(H)x175(D) mm

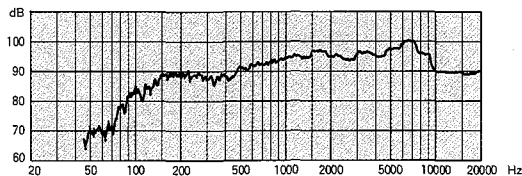
Weight:

8.0 lbs. (3.6 kg)

※ Specifications are subject to exchange without notice.

Frequency response

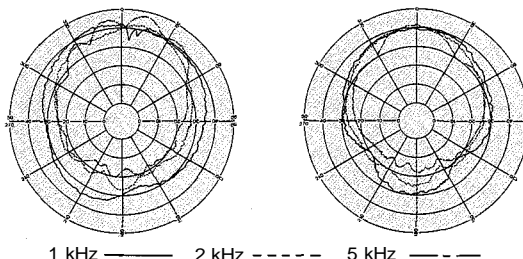
(Anechoic chamber, 1W/1m, 1/3 octave pink noise)



Polar response

horizontal

vertical



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