

# Amplified Speaker & Assemblies



ASWB-1



ASWG-1

## Series AS-1



AS-1

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### Features

- Ideal for telephone-paging systems
- Interfaces with standard 600-ohm telephone line
- Self-contained amplifier — cost-efficient for small systems
- Built-in volume control
- Easy installation using standard telephone station wire

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### Description

Bogen Model AS-1 is an eight-inch, cone-type loudspeaker, complete with a built-in amplifier and volume control, designed for telephone paging applications. It is engineered to provide excellent sound quality and trouble-free operation. A compact, all solid-state IC amplifier eliminates the need for a centralized paging amplifier and permits the adjustment of the paging volume level at each speaker location in the system.

The amplifier operates on 24V DC power, has an input impedance of 1000 ohms, and a rated output of one watt into a 45-ohm speaker.

Up to nine AS-1 units can be driven by a single Bogen Model PRS-ASAC Power Supply (refer to publication number 54-7610 for power supply specifications).

AS-1 amplified speakers can be used in conjunction with Bogen's TAM-B Telephone Access Module, or connected directly to a 600-ohm paging interface for an easy-to-install, inexpensive paging and background music system that integrates with telephone systems.

Model AS-1 is available unmounted, or fully assembled in an attractive wall baffle finished in simulated walnut (Model ASWB-1), or a white semi-gloss enameled ceiling grille (Model ASWG-1).

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Technical  
Specifications

<b>Rated Output:</b>	1 watt
<b>Frequency Response:</b>	10Hz to 10kHz
<b>Distortion at Rated Output:</b>	1.5% max.
<b>Signal to Noise Ratio:</b>	-70dB
<b>Input Impedance:</b>	1000 ohms
<b>Input sensitivity:</b>	113mV $\pm$ 4dB
<b>Sound Pressure Level:</b>	92dB @ four feet on axis with 1 watt input at 1000Hz
<b>Dispersion:</b>	90°
<b>Size:</b>	8" cone
<b>Volume Control:</b>	Outgoing level adjust
<b>Supply Voltage Range:</b>	24VDC $\pm$ 10%
<b>Nominal Operating Current:</b>	50mA
<b>Idle Current:</b>	20mA
<b>Shipping Weight:</b>	2 lbs. (.91 kg)
<b>Optional Assembled Versions:</b>	<i>Model ASWB-1</i> — AS-1 in a 9- $\frac{1}{2}$ "W x 11- $\frac{5}{8}$ "H x 6- $\frac{5}{8}$ "D (top), 4- $\frac{1}{8}$ "D (base) (24.1 x 29.5 x 16.8 x 10.5) simulated wall baffle; shipping weight 8 lbs. (3.62 kg) <i>Model ASWG-1</i> — AS-1 mounted on a 12- $\frac{5}{8}$ " (32 cm) diameter steel ceiling grille, finished in white semi-gloss enamel; shipping weight 3 lbs. (1.36 kg)

Architects  
and Engineers  
Specifications

The loudspeaker shall be a Bogen Model \_\_\_\_\_ (Insert AS-1, ASWB-1, or ASWG-1) amplified loudspeaker, or equivalent, utilizing an eight-inch cone-type loudspeaker and a built-in amplifier with volume control, providing a frequency response from 100Hz to 10kHz, with not more than 1.5% distortion at rated output. Sensitivity shall be 113mV,  $\pm$ 4dB. Input impedance shall be 1000 ohms. The loudspeaker shall be powered by a suitable 24V DC power supply and shall consume 50mA at nominal output. Rated power output shall be one watt into 45 ohms. Sound pressure level, measured four feet on axis with one watt input at 1000Hz shall be at least 92dB.

**(Use for Model ASWB-1)** The loudspeaker shall be assembled in a wall baffle for surface mounting (with slight downward sound dispersion), constructed of  $\frac{3}{8}$ " particle board in simulated walnut, with a black grille cloth. The unit shall measure 9- $\frac{1}{2}$ "W x 11- $\frac{5}{8}$ "H x 6- $\frac{5}{8}$ "D (top), 4- $\frac{1}{8}$ "D (base). The shipping weight shall be eight pounds.

**(Use for Model ASWG-1)** The loudspeaker shall be assembled on a 12- $\frac{5}{8}$ " diameter steel ceiling grille, finished in white semi-gloss enamel, for recessed installation. The shipping weight shall be three pounds.

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