

ZETRON SPEAKER AND MICROPHONE



SPEAKER FEATURES

- Machined aluminum enclosure for stable desktop use
- High quality driver allows clear full 5-watt output at maximum volume
- Resonant cavity is tuned for optimum response at voice frequencies
- Balanced transformer input accepts line-level audio and eliminates troublesome ground loops.
- Large smooth-action volume knob for predictable adjustments
- LED confirms speaker is powered ready for use
- LED Call Indicator is triggered by the presence of an audio signal
- LED Call Indicator is not affected by the position of the volume control
- LED Call Indicator permits users to visually identify the source of incoming calls in multi-speaker (Select/Unselect) systems
- Operator cannot reduce volume below a technician-adjustable preset minimum volume level to prevent missed calls
- Operates from 12 volts DC to allow elimination of clumsy "wall bugs" in system installations

SPEAKER PERFORMANCE

Unlike normal low-cost computer speakers, Zetron's speakers are specifically designed for mission critical applications where reliability, ease of use, and voice fidelity are important.

Premium grade components are housed in an attractive yet rugged enclosure to optimize the reproduction of two-way radio voice-band communication. An individual volume control eliminates the confusion caused by the stereo balance control found on standard multimedia computer speakers. A high visibility call indication LED on the speaker instantly identifies the source of audio.

MICROPHONE FEATURES

MICROPHONE BASE

- Machined aluminum base enclosure for stability
- Red Double-wide TRANSMIT pushbutton,
- White MONITOR pushbutton
- Long life switches rated for 50 million cycles
- Always-live microphone output allows for parallel PTT footswitch
- Isolated and balanced output (Mic+ and Mic-)

Available with either a generic capsule on a standard-duty gooseneck or a Shure noise cancelling capsule on a heavy-duty extended length gooseneck.

GENERIC GOOSENECK MICROPHONE

- Cardioid pickup pattern
- Dynamic microphone cartridge
- Frequency response: 100 to 12 kHz
- Sensitivity: -52 dBV / Pa
- Impedance: 600 ohm
- 8.5" gooseneck

SHURE GOOSENECK MICROPHONE

- Shure 503BG Cardioid dynamic noise canceling capsule
- Smooth frequency response with excellent fidelity in the voice range
- Close-talking operation keeps unwanted signals and background noise at low levels
- Constant output over voice spectrum when close talked
- Humbucking coil minimizes undesirable hum effects such as CRT interference
- Low-impedance (170 ohm) design permits long cable runs in extreme hum fields
- Frequency response: tailored to communications use (100 Hz to 7 kHz)
- Sensitivity: -61.5 dBV / Pa
- Longer 12.5 inch gooseneck for optimal positioning

MICROPHONE PERFORMANCE

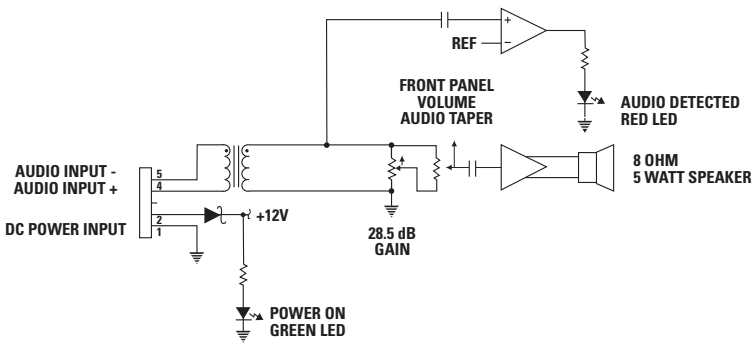
Whichever option you choose you can be confident that the Zetron Communications microphone has been designed for mission-critical radio communications. Unlike public address or paging microphones this mike has been designed from the ground up for dispatch center use. The stable base with highly reliable switches is matched with your choice of gooseneck and capsule combination.

SPEAKER SPECIFICATIONS

Size	7.0"H x 3.0"W x 4.1"D incl. volume knob.
Weight	1.90 pounds
Input Power requirement	12 to 14 Vdc @ 1 amp (< 100 mV ripple)
Audio Input Impedance	10 K ohm balanced transformer coupled
Sensitivity	250 mV RMS sine wave for 5 watt output
Frequency Response	Optimized for 300Hz to 7 kHz
Call LED threshold	25 mV RMS
Speaker Output	5 watts RMS (for over 100 dB SPL)
Amplifier Distortion	Under 0.1%
Preset minimum volume	Adjustable from silence to full volume



SPEAKER BLOCK DIAGRAM

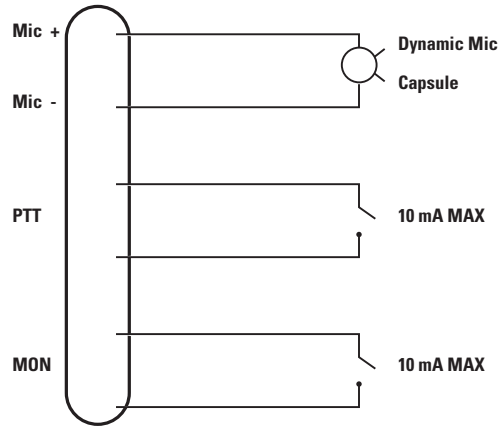


MICROPHONE SPECIFICATIONS

Size of Base	2.2"H x 3.5"W x 7.0"D
Weight	for Generic Gooseneck 2.45 pounds with cable
Weight	for Shure Gooseneck 2.90 pounds with cable



MICROPHONE BLOCK DIAGRAM



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