



Introduction

The American Wireless ACP2712 microphone assembly was developed as a replacement for the BMN6007A Motorola Centracom™ series panel (CIE) mount gooseneck microphones.

The ACP2713 configuration maintains the same specifications offering excellent voice fidelity while reducing the background noise often apparent in the Dispatch Center environment.

Featuring a low impedance, moving coil type transducer with an integral hum bucking coil and an attached two-conductor shielded cable with a built in strain relief.

The standard termination is an RCA male plug (other optional cable terminations are available). The flexible "gooseneck" is standard in a matching black finish (13" long)

This configuration produces a frequency response with an essentially constant output voltage over the voice spectrum when used in the normal communications dispatcher configuration.

The ACP2713 is housed in an aluminum case with a black enamel finish, it is mounted to a gooseneck with a special adapter for mounting to a console CIE panel.

An optional desk top mounting base and a variety of panel mounting hardware are available.

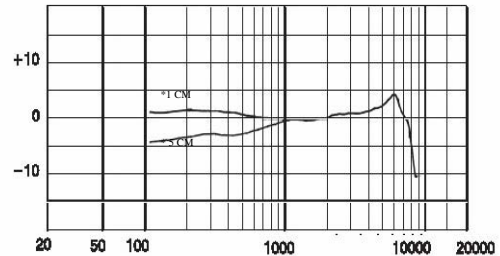
Specifications

Type

Dynamic, unidirectional (cardioid) dispatcher - (close talking).

Frequency Response

100 to 7,000 Hz (See figure 1)



* Distance from the speaker to the microphone.

Impedance

170 ohms actual

Output Level (Open Circuit Voltage)

-61.5 dBV/Pa (.84mv) *

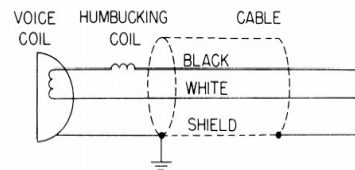
-41.5 dB (8.4 mV) **

* 1Pa = 94 dB SPL

** 0 dB = 1V/100 μbar

Polarity

Positive pressure on the diaphragm produces positive voltage on the white conductor with respect to the black conductor (figure 2)



Internal Connections (Figure 2)

Hum Pickup

Maximum 15 dB equivalent SPL in mOe field.

Cable

1.2 m (4 ft) two conductor shielded-terminated with RCA male plug.

Case

Aluminum with black enamel finish; stainless steel screen.

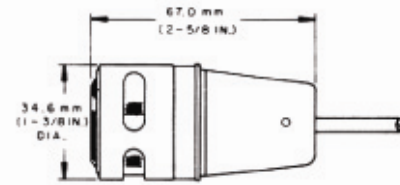


Features

- Good frequency response and fidelity within the audio spectrum.
- Optimized performance for communications dispatching applications.
- A cardioid pickup pattern coupled with range sensitivity are optimized to reduce the ambient background noise.
- Maintains constant output over the voice spectrum.
- A Hum bucking coil minimizes undesirable hum effects such as CRT or CPU interference.
- The low impedance design enables the use of longer cable runs in extreme noise fields.
- A small unobtrusive design makes for comfortable access without impairing monitor vision.
- Rugged construction insures long life in the 24-7 radio dispatch environment.



**ACP2713 Mounted in MCC7500
Desk Top Cabinet**



Overall Dimensions

Acoustic Considerations:

The dispatcher use characteristics of the ACP27123 configuration are obtained by the microphones tailored frequency response, directionality, and distance discrimination.

The acoustical elements are designed to optimize performance in the voice frequency range of 100 to 7000 Hz.

This results in substantial reduction of sounds outside of the desired range and proper control of sounds within the desired range.

The microphone rejects noise through its inherent properties and discriminates against unwanted sounds arriving from a distance in favor of sounds arriving from a close source.

This combination makes a perfect configuration for use in the radio dispatch control center environment.

Guarantee:

All American Wireless products are guaranteed for a period of one year from the date of delivery.

American Wireless Inc.

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