

# Announce Microphone MI-12004, 12005\*

## Features

- Rugged, light weight, small in size.
- Attractive appearance.
- Shock absorbing mounting.
- Pressure type.
- Excellent for announce work.
- Built in cable connector.
- Detachable cable.

## Uses

The MI-12004 Announce Microphone is excellent for paging and public address work indoors or outdoors where a rugged, light weight microphone with good response to voice and music is required. It is admirably adapted to commercial and industrial sound installations.

## Description

This microphone is a pressure operated microphone employing the dynamic principle. The moving element is a thin moulded diaphragm in which a single straight wire is embedded. This wire which is held in the airgap of a strong permanent magnet generates a small voltage of the same wave form as the sound acting on the diaphragm. The wire is connected to the primary of a small but efficient transformer in order to provide an output impedance sufficiently high to allow the use of standard cable. The transformer secondary is connected to a male plug insert in the shank of the microphone. No cable is connected permanently to the microphone. A hinged cover provides protection to the cable and connector, the cable bring brought out through a slot in the bottom of the cover.

The microphone is shock mounted by means of a rubber shock cushion between the head and the shank. A swivel arrangement allows tilting of the head forward or back through an arc of approximately 45 degrees each side of the Vertical Position. New streamlined design, rugged construction and attractive baked umber gray metalustre enamel finish with satin chrome trim combine to make this microphone a welcome addition to any installation.

## Specifications

Type \_\_\_\_\_ Pressure operated  
Directional Characteristics:  
(Below 3000 cycles/sec.) \_\_\_\_\_ Non-directional  
(Above 3000 cycles/sec.) \_\_\_\_\_ Semi-directional  
Output Impedance \_\_\_\_\_ 250 ohms  
Effective Output Level at 1000 Cycles/sec. \_\_\_\_\_ -57 dbm<sup>1</sup>  
Hum Pickup Level \_\_\_\_\_ -109 db<sup>2</sup>  
Frequency Range \_\_\_\_\_ 75 to 9000 cycles/sec.  
\_\_\_\_\_ ±4 db 100 to 8000 cycles/sec.  
Mounting \_\_\_\_\_ 5/8"-27 fixture thread

<sup>1</sup> Sound pressure 10 dynes/cm<sup>2</sup>.

<sup>2</sup> Hum field 1 x 10<sup>-3</sup> gauss.

## Dimensions:

Height (including shank) \_\_\_\_\_ 10"

Width \_\_\_\_\_ 1 5/8"

Depth \_\_\_\_\_ 2"

Finish \_\_\_\_\_ UMBER gray metalustre and satin chrome trim

Weight, Less Cable (unpacked) \_\_\_\_\_ 1 1/4 lbs.

Weight, less cable (packed) \_\_\_\_\_ 2 lbs.

## Stock Identification:

Microphone (less cable) \_\_\_\_\_ MI-12004

Microphone (with 15' cable and plug) \_\_\_\_\_ MI-12081-B

Microphone (with 30' cable and plug) \_\_\_\_\_ MI-12081-C

## Accessories

Two-Conductor Shielded Cable with Plug  
(15' long) \_\_\_\_\_ MI-12097-B

Two-Conductor Shielded Cable with Plug  
(30' long) \_\_\_\_\_ MI-12097-C

Stand (complete with stud to match shank) \_\_\_\_\_ MI-12066

Female Cable Connector \_\_\_\_\_ MI-12058

## Architects' and Engineers' Specifications

The announce microphone shall be a pressure operated type employing the dynamic principle. Its directional characteristics shall be non-directional below 3000 cycles and semi-directional above 3000 cycles. Overall dimensions shall be 10" long, 1 5/8" wide and 2" deep. A male plug insert shall be mounted in the shank of the microphone. A hinged cover shall be provided on the shank so that when the cable is plugged in the cover may be snapped closed to conceal the connector. A slot shall be provided in the bottom of the cover for bringing a cable out. A shock mounting shall be provided between the microphone head and shank. The head shall be capable of being tilted through an arc of 45 degrees forward or back from the Vertical Position.

The following general characteristics shall apply:

1. Output Impedance \_\_\_\_\_ 250 ohms

2. Effective Output Level at 1000 Cycles \_\_\_\_\_ -57 dbm<sup>1</sup>

3. Frequency Range \_\_\_\_\_ 75 to 9000 cycles/sec.  
\_\_\_\_\_ ±4 db 100 to 8000 cycles/sec.

4. Mounting \_\_\_\_\_ 5/8"-27 fixture thread

5. Weight \_\_\_\_\_ 1 1/4 lbs.

6. Finish \_\_\_\_\_ UMBER gray metalustre and satin chrome

A shielded cable *x* feet long, complete with female connector to match the male insert shall be available as a separate item.

*x*—Specify whether 15' or 30'.

\* For high impedance, 30,000 ohms order MI-12005