



SHURE BROTHERS
 INCORPORATED
 Microphones and Acoustic Devices
 225 WEST HURON STREET :: CHICAGO 10, ILLINOIS
 PHONE DELAWARE 4550 :: CABLE: SHUREMICRO

DATA SHEET

DATE: APRIL, 1947

SUBJECT: **Model 52 High-Impedance "Econodyne" Dynamic Microphone.**

MODEL 52 "ECONODYNE"

High-Level, High-Impedance Dynamic Microphone

General: Model 52 is a pressure operated moving coil dynamic microphone having high output level, smooth response and a semi-directional pickup characteristic.

The case is streamlined for improved acoustical performance and modern appearance.

Each microphone is provided with a 15 ft. single conductor plastic jacketed shielded cable.

Applications: The Model 52 is suitable for public address, recording, call systems, radio telephone equipment, and similar applications. Because of its high output level, Model 52 microphone may be used with all standard public address amplifiers.

The microphone is unusually rugged and is practically immune to severe moisture and temperature conditions.

Connections: The Model 52 has an internal transformer to provide a high impedance output. The microphone may be used with any crystal microphone amplifier or other amplifier with an input impedance of 100,000 ohms or more.

The inner or "hot" conductor of the cable should be connected to the grid of the first tube in the amplifier across a load resistance of 100,000 ohms or more. The shield should be connected to the chassis or amplifier ground. Cable lengths longer than 25 feet will be accompanied by some loss of high frequency response.

Installation: The Model 52 has the standard 5/8"-27 thread and may be mounted on any Shure desk or floor stand.

Operation: No special precautions beyond ordinary care are necessary in the operation of the Model 52 Dynamic Microphone. It will operate satisfactorily under ordinary conditions in hot and cold climates. To retain the full strength of the permanent magnet and to maintain alignment of structure, dropping or other severe mechanical shocks should be avoided.

SPECIFICATIONS

Voltage Sensitivity: 52 db below 1 volt per dyne per sq. cm. when loaded with 100,000 ohms or more. This is equivalent to 2.5 millivolts r.m.s. per dyne per sq. cm. across 100,000 ohms or more.



SPECIFICATIONS, Continued

MODEL 52	
Diameter of Case.....	2-13/32"
Length Overall	3-1/4"
Finish	SATIN CHROME
Net Weight (less cable).....	7/8 lb.
Shipping Weight	2-1/2 lb.
Code Word (including 15' cable).....	RUMIN

Recommended Load Impedance: 100,000 ohms or more.

Guarantee: Each microphone is guaranteed to be free from electrical and mechanical defects for a period of one year from date of shipment from the factory, provided all instructions are complied with fully. In case of damage, return the microphone to the factory for repairs. Our guarantee is voided if the microphone case is opened.