ENGINEERING DATA

- True Hypercardioid Characteristic
- Built-in “Hum Buck” Filter
- Extended Frequency Response
- Highly Sensitive
- “Standard” Setting Specification Consistency i.e., any two “random choice” microphones are acceptable as a stereo matched pair
- Available with Cannon or DIN Connector

DESCRIPTION AND APPLICATIONS

The BEYER DYNAMIC M 88 is a professional dynamic moving coil microphone with wide response and high output, with a supercardioid characteristic bordering on the theoretically impossible. This, combined with “standard” setting transient response and front to back ratio reduces feedback problems in commercial sound applications to an absolute minimum. In broadcasting and recording studio use, the microphone’s low end capability and extended frequency response of 30 to 20,000 Hz guarantees complete ability to reproduce natural sound. The moving coil transducer of the M 88 is supported in a special suspension which eliminates noise usually transmitted from a microphone body. Unlike ordinary microphones, the M 88 does not need any venting on its shaft to achieve its outstanding hypercardioid characteristics. Thus, it can be hand held with absolutely no danger of altering the directional characteristics. A built-in “hum buck” coil reduces influence from magnetic fields under all conditions by as much as 20 db.

The M 88 has achieved great popularity in professional sound reinforcement and is being used with excellent results as a conference microphone in buildings such as banks and industrial complexes where a high reverberation field has to be contended with. The microphone’s exceptional studio qualities are successfully put to the test in such demanding applications as a vocalist microphone for jingles, concert and all voice style productions.

The design and features of the M 88 make it ideal for both indoor and outdoor recording. It will completely withstand the rigors of professional use and is completely unaffected by humidity and extreme temperatures.
This polar pattern and frequency response curve correspond to typical machine run specifications from a standard M 88.

### SPECIFICATIONS
- **Operating Principle:** Pressure Gradient
- **Frequency Response:** 30 to 20,000 Hz
- **Polar Pattern:** Hypercardioid
- **Side attenuation at 120°:** > 23 db
- **Output Level at 1 kHz:**
  - Open Circuit Voltage: 2.5 mV/Pa
  - EIA Sensitivity Rating H: 144 dB
  - Hum Sensitivity: 4 µV/Hz
  - Electrical Impedance: 200 ohms
- **Load Impedance:** > 1000 ohms
- **Diaphragm:** Hostaphan
- **Case:** Brass
- **Case Finish:** Matt black non-reflecting chromium-plated
- **Net Weight (less cable):** 10.75 ounces (305 grams)
- **Built-in male connector:** Switchcraft M 3 M or equivalent

### OPTIONAL ACCESSORIES
- **Cable**
  - Type MKV N (C), 16°, two conductor shielded, broadcast type, synthetic rubber-jacketed, with Switchcraft A 3 F female connector or equivalent on the microphone end, leads white (inphase) and blue or type MKV N, same specification but with a female DIN connector on the microphone end. For further cable sets please inquire.
  - Clamp**
  - MKV 25 or quick release clamp MKV 6
  - Windscreen
  - WS 69, lightweight foam material, available at your choice in gray, red, blue, green and yellow color.
  - Gooseneck
  - for M 88 N (C): SH 15/400 N (C), for M 88 N models: SH 15/250 N or SH 15/400 N, base plate ZSH 30
  - Table Stand
  - ST 300 with MKV 25
  - Floor stands
  - Lightweight ST 230, incl. boom arm, ST 201/1, ST 201 /A1, ST 205 /A1 + boom arm Sch 211
  - Cable transformers
  - for connection to high impedance inputs
  - TR/BV 345 015 006 K-5 (with Switchcraft A 3 F connector or equivalent, length of cable 16°)
  - TR/BV 345 015 006 C-C (matching transformer mounted in Switchcraft audio connector S 3 FM or equivalent)
  - TR/BV 347 015 006 N-H (for DIN sockets)
  - TR/BV 347 015 006 N-K (for input sockets for jack plugs)
  - TR/BV 347 020 007 N-CI (for Cinch sockets)

*supplied complete with cable in the USA
**MKV 25 furnished accessory with M 88 N (C).

### FURNISHED ACCESSORY
- Carrying Case
  - black deluxe leatherette presentation case

### WIRING DIAGRAM

- **M 88 N**
- **M 88 N (0)**
- **M 88 N (C)**

Positive pressure produces voltage on red cable lead.

### ARCHITECTS’ AND ENGINEERS’ SPECIFICATIONS
The microphone shall be a moving coil (dynamic) type microphone with a frequency range of 30 to 20,000 Hz. The unit shall have a true hypercardioid polar characteristic. The attenuation at 120° shall be better than 23 db. The microphone output shall be – 51 dbm when 0 dbm = 1mW/Pa respectively 2.5 mV/Pa. EIA sensitivity rating at 1,000 Hz shall be – 44 dbm. The microphone shall have a built-in "hum buck" coil to reduce magnetic hum susceptibility by as much as 20 db. Electrical impedance shall be 200 ohms. The case shall be made of brass. Case finish shall be non-reflecting matt black chromium-plated (M 88 N (C)); also a version with matt chromium-plated finish shall be available (M 88 N models).

The overall dimensions shall be: 7.12" (181 mm) in length and 1.90" (48.5 mm) (head) x 1" (25.5 mm) (shaft) in diameter.

The microphone shall be available with the following connector versions: Switchcraft connector M 3 M or equivalent (M 88 N (C)) or 3-pin Tuchel connector T 3262 or equivalent (M 88 N) or T 3007 special connector or equivalent (M 88 N (T)) or 6-pin Tuchel connector T 3402 (M 88 N (0)).

The BEYER DYNAMIC model M 88 is specified.

Subject to change without notice.