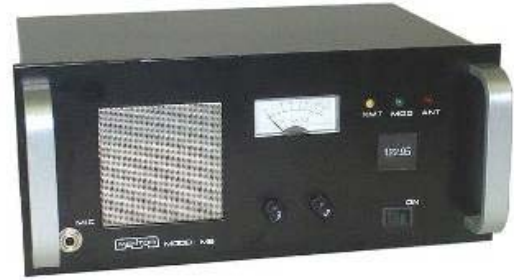




"Wireless Solutions for High-Tech Industries"

## Model MB



The Model MB is one of the oldest and longest running aviation band base station radios ever built. It is widely used for ARINC channel communications, Unicom, and in small control towers. One testament to its durability is its unprecedented long manufacturing life. It's the only radio we're aware of that has been in constant production since the early 1980's. Choose from either a desktop or rack mounted version. For aviation communications, you can depend on Mentor.

### The MB has these standard features:

- Modulation leveling. Consistent output regardless of different voices and "microphone techniques".
- Highly effective AGC (automatic gain control) with additional leveling in audio amplifiers.
- Large high quality speaker
- Receiver signal strength meter -S-Meter
- Transmitter power indicator. LED and meter show power and keying.
- Modulation indicator (assures operator that microphone is working)
- Antenna condition (standing wave ratio) indicator

A large variety of remote operation options are available, including "extended local control", dc pairs or phone lines, "ac" pairs or phone lines with tone signaling, and dedicated line or dial-up long distance phone line operation.

### Dimensions:

- **Desktop version:** 12" wide x 5.5" high x 10" deep
- **Rack Mount version:** 19" wide x 5.5" high x 10" deep

**Frequency Range:** 118.000 MHz to 135.975 MHz (25Khz channel spacing)

### Power Requirement:

Switch selectable for either 105-125 volts AC, 50-60 Hz or 210-250 volts AC 50-60 Hz (most international power cords and plugs available)

**Temperature Range:** -20° F to +122° F  
(-30° C to +50° C)

**Number of channels:** 6 maximum

**FCC Id:** QQTMB

### Receiver:

- **Sensitivity:** (a) 1.5 uv with 1 KHz 30% modulation will produce at least 6 dB (S+N)/N, and (b) 3 uv with 1 KHz 50% modulation will produce at least 4 watts at speaker
- **Selectivity:** at least -6 dB at +/-9 KHz; at least -65 dB adjacent 25 KHz channel
- **AGC:** 3 dB 10-50,000 uv
- **Audio Output:** 4 watts min. with less than 8% distortion

### Transmitter:

- **Power Output:** 10 watts carrier nominal ( 40 watts PEP)
- **Load Impedance:** 50 ohms
- **Freq. Stability:** +/- .002%
- **Spurious Outputs:** Meets FCC requirements
- **Modulation:** Peak 85% nominal

View our catalog online at [www.mentorradiocom](http://www.mentorradiocom)

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## Model MB

### OPTIONS:

Besides the rack mount option, Mentor Radio also provides several additional items to maximize your radio communications. Consider us for your accessories when you are installing or upgrading your current system.

**Remote Control** – Allows the radio to be located physically close to the antenna for maximum radiated power yet be controlled from any other location. There are virtually no limit to distance this radio can be operated. Configure it to be operated from across the hall to a building in another city. See the Remote Control Brochure for details about connecting the MB base radio with an remote control.

### Microphones

- **Pedestal style microphone.** Part number 2101319 is a desk style, microphone with a built in amplifier ready to plug in and talk.
- **Handheld microphone:** Our standard noise-canceling microphone. Use it on any of the Mentor Radio products from the MB, M15-25, or M15B base station radios to the vehicle-mounted model M15.

- **Headsets:** Select from a single ear, overhead or dual ear style with in line mic switch.

### Antennas

- **AV-1:** Broadband base radio antenna. An excellent choice for any base radio station. This antenna is extremely durable (wind loading up to 110 mph) and simple to install. Just hook up the cable and you're ready to "get on the air". Unlike the ASP7A, this antenna does not need to be cut or adjusted "in-the-field".
- **ASP7A:** The low cost alternative for anyone wanting to minimize expense yet have an efficient communications system.



*MB shown with Pedestal Microphone*

**Coax:** Call us and let our specialists help you select the correct coax for your particular installation requirements. Since coax signal loss can be a significant issue in a base station installation, many various combinations are possible to minimize its affect depending on your radio and antenna location plan.

Check out our [entire product line](#) when you visit us on the web at <http://www.mentorradio.com> where you can find information about our products, accessories, upgrade options, and helpful hints and tricks to a more satisfying communications experience.

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