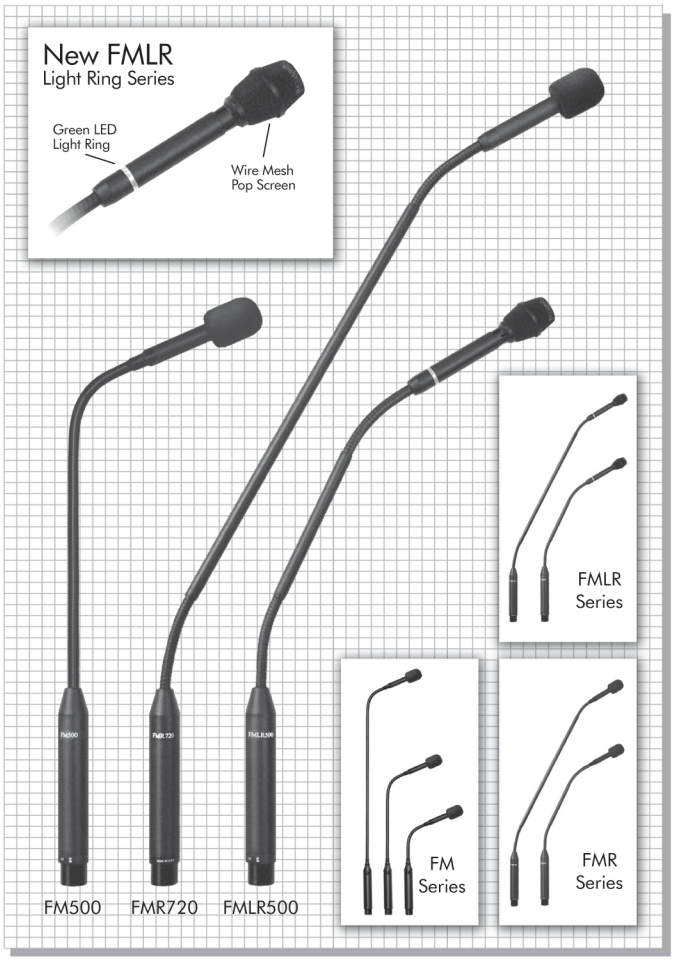
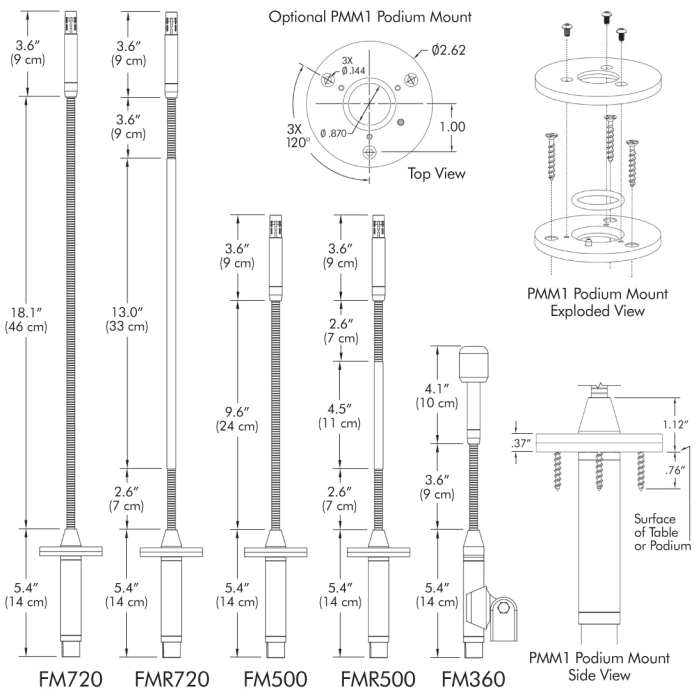
FlexMic Series

FM Series: Fully Flexible Gooseneck available in three lengths
FMR Series: Gooseneck with Rigid Center and Flex at Both Ends, in two lengths
FMLR Series: Gooseneck with Rigid Center and Flex at Both Ends with Green LED Light Ring, in two lengths



- Uniform Frequency Response at 0°, 45° & 90°
- On or Off Axis Always Hear the Orator
- Highly Intelligible
- More Gain Before Feedback
- No Handling Noise
- 145dB SPL Max Acoustic Input
- 20kHz High Frequency Response
- Incredible RFI Rejection
- Available in cardioid or hypercardioid
- Available with Fully Flexible Gooseneck in 360, 500 & 720mm Lengths
- Available with Rigid Center Gooseneck with flex at both ends in 500mm and 720mm Lengths
- Available with LED Light Ring and Rigid Center Gooseneck with flex at both ends in 500mm and 720mm Lengths
- Optional PMM1 Podium Mount Accessory



The Earthworks FM Series offers versatile options that will provide you with the ideal choice for a spectacular podium microphone. These microphones have been the choice of those who demand the very best. Earthworks FlexMics™ are in use in civic centers, theatres, churches and houses of congress in several states.

Earthworks patented technologies provide high intelligibility and uniform off-axis response to insure that the orator is always heard and well understood, at either the front or the sides of the microphone. This smooth off-axis response also provides more gain before feedback. With 145dB SPL max acoustic input, it is virtually impossible to overload the microphone, there is no microphone handling noise as well as incredible RFI rejection.

You have a variety of choices of fully flexible goosenecks or goosenecks with rigid centers that flex at both ends. There are also models with light rings. All models are available in either cardioid or hypercardioid polar patterns. The optional PMM1 podium mount will work with any FlexMic Series model.

If you haven't heard an Earthworks FlexMic, you are in for a real surprise. Try one at your favorite Earthworks dealer. You will be impressed!

See full specifications on back of page

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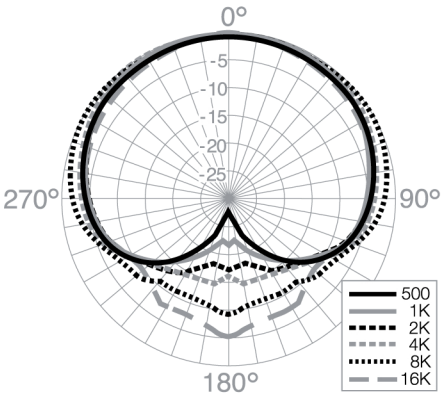
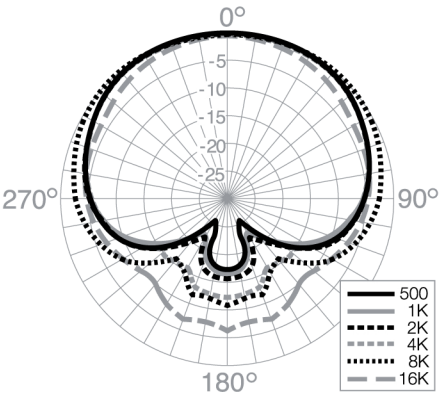
SPECIFICATIONS



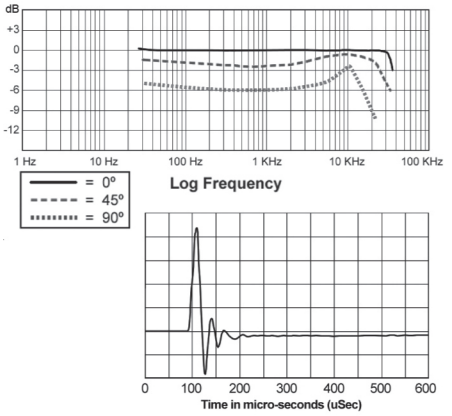
Typical Cardioid
Polar Response

Above polar applies to all Cardioid models in the FM Series, FMR Series and FMLR Series



Typical Hypercardioid
Polar Response

Above polar applies to all Hypercardioid models in the FM Series, FMR Series and FMLR Series



Above graphs apply to all cardioid and hypercardioid models in the FM Series, FMR Series and FMLR Series

FM Series

Fully Flexible Gooseneck

FM360, FM500 & FM720
FM360/HC, FM500/HC & FM720/HC

Specifications

Frequency Response: 50Hz to beyond 20kHz ± 2dB @ 6 inches
Polar Pattern: Cardioid or Hypercardioid
Sensitivity: 10mV/Pa (-40dBV/Pa)
Power Requirements: 48V Phantom, 10mA
Max Acoustic Input: 145dB SPL
Connector: XLR-3 (pin 2+)
Min Output Load: 600 ohms between pins 2 & 3
Noise: 22dB SPL equivalent (A weighted)
Gooseneck: Fully flexible gooseneck
Dimensions: Base diameter is 22mm (.860")
Lengths 14.2in (360mm), 19.7in (500mm) & 28.4in (720mm)
Weight: 0.3 lb (137g)

Architectural & Engineering Specifications

The microphone shall be a back-electret condenser type with a wide-range uniform frequency response of 50 Hz to 20 kHz, ±2 dB. The microphone shall have an output level of 10 mV/Pa. The microphone shall be of a single capsule, single membrane design. The microphone shall have an impulse response with the rise time no longer than 25 microseconds, and total settling time, including the rise time, no longer then 120 microseconds. The microphone shall have polar characteristics uniform in all planes to form either a cardioid or hypercardioid of revolution. Response at any angular position up to 90° away from the major axis within frequency range from 500 Hz to 16 kHz shall deviate by no more than ±3 dB from the ideal cardioid or hypercardioid pattern as described by the following equation: SPL(*a*)=20*Log(1/2+cos(*a*)/2) (dB), where *a* is the angle in radians between the measurement source position axis and the major axis. The microphone shall accept sound pressure levels up to 145 dB producing no more than 3% THD. Overall length shall be 14.2 in (360 mm) long for FM360, 19.7 in (500 mm) long for FM500, 28.4 in (720 mm) long for FM720. The maximum head diameter shall be .540 in (14 mm) without the windscreen, and 1.2 in (30 mm) with the windscreen. The microphone shall be terminated with a professional gold-plated 3 pin XLR connector. The microphone shall include an external windscreen. The microphone shall require 48V phantom power. The microphone shall be made of metal with black finish. The microphone shall have its entire flexible portion encased in black vinyl. The Earthworks FM360, FM500 or FM720 cardioid or FM360/HC, FM500/HC or FM720/HC is specified.

FMR Series

Gooseneck with Rigid Center and Flex at both ends

FMR500 & FMR720
FMR500/HC & FMR720/HC

Specifications

Frequency Response: 50Hz to beyond 20kHz ± 2dB @ 6 inches
Polar Pattern: Cardioid or Hypercardioid
Sensitivity: 10mV/Pa (-40dBV/Pa)
Power Requirements: 48V Phantom, 10mA
Max Acoustic Input: 145dB SPL
Connector: XLR-3 (pin 2+)
Min Output Load: 600 ohms between pins 2 & 3
Noise: 22dB SPL equivalent (A weighted)
Gooseneck: Rigid center with nominal 2.5in to 3in flex on both ends
Dimensions: Base diameter is 22mm (.860in)
Lengths 19.7in (500mm) & 28.4in (720mm)
Weight: 0.3 lb (137g)

Architectural & Engineering Specifications

The microphone shall be a back-electret condenser type with a wide-range uniform frequency response of 50 Hz to 20 kHz, ±2 dB. The microphone shall have an output level of 10 mV/Pa. The microphone shall be of a single capsule, single membrane design. The microphone shall have an impulse response with the rise time no longer than 25 microseconds, and total settling time, including the rise time, no longer then 120 microseconds. The microphone shall have polar characteristics uniform in all planes to form either a cardioid or hypercardioid of revolution. Response at any angular position up to 90° away from the major axis within frequency range from 500 Hz to 16 kHz shall deviate by no more than ±3 dB from the ideal cardioid or hypercardioid pattern as described by the following equation: SPL(*a*)=20*Log(1/2+cos(*a*)/2) (dB), where *a* is the angle in radians between the measurement source position axis and the major axis. The microphone shall accept sound pressure levels up to 145 dB producing no more than 3% THD. Gooseneck will have a rigid center section with flexible gooseneck at both ends. Overall length shall be 19.7 in (500 mm) long for FMR500 and 28.4 in (720 mm) long for FMR720. The maximum head diameter shall be .540 in (14 mm) without the windscreen, and 1.2 in (30 mm) with the windscreen. The microphone shall be terminated with a professional gold-plated 3 pin XLR connector. The microphone shall include an externalwindscreen. The microphone shall require 48V phantom power. The microphone shall be made of metal with black finish. The Earthworks FMR500 or FMR720 cardioid or FMR500/HC or FMR720/HC is specified.

FMLR Series

Light Ring Models, Gooseneck with Rigid Center and Flex at both ends

FMLR500 & FMLR720
FMLR500/HC & FMLR720/HC

Specifications

Frequency Response: 50Hz to beyond 20kHz ± 2dB @ 6 inches
Polar Pattern: Cardioid or Hypercardioid
Sensitivity: 10mV/Pa (-40dBV/Pa)
Power Requirements: 48V Phantom, 10mA
Light Ring Power: 7.5V DC @ 50mA
Max Acoustic Input: 145dB SPL
Light Ring: Green LED type (externally powered & switched, 7.5V DC @ 50mA, pin 2+ & pin 4-)
Connector: XLR-5 (audio pin 3+, pin 5-)
Min Output Load: 600 ohms between pins 3 & 5
Noise: 22dB SPL equivalent (A weighted)
Gooseneck: Rigid center with nominal 2.5" to 3" flex on both ends
Dimensions: Base diameter is 22mm (.860")
Lengths 19.7in (500mm) & 28.4in (720mm)
Weight: 0.3 lb (137g)

Architectural & Engineering Specifications

The microphone shall be a back-electret condenser type with a wide-range uniform frequency response of 50 Hz to 20 kHz, ±2 dB. The microphone shall have an output level of 10 mV/Pa. The microphone shall be of a single capsule, single membrane design. The microphone shall have an impulse response with the rise time no longer than 25 microseconds, and total settling time, including the rise time, no longer then 120 microseconds. The microphone shall have polar characteristics uniform in all planes to form either a cardioid or hypercardioid of revolution. Response an any angular position up to 90° away from the major axis within frequency range from 500 Hz to 16 kHz shall deviate by no more than ±3 dB from the idealcardioid or hypercardioid pattern as described by the following equation: SPL(*a*)=20*Log(1/2+cos(*a*)/2) (dB), where *a* is the angle in radians between the measurement source position axis and the major axis. The microphone shall accept sound pressure levels up to 145 dB producing no more than 3% THD. There shall be a green LED light ring powered by external power of 7.5VDC (8 V max) @ 50 mA. Gooseneck will have a rigid center section with flexible gooseneck at both ends. Overall length shall be 19.7in (500 mm) long for FM500, 28.4 in (720 mm) long for FM720. The maximum head diameter shall be .540 in (14 mm) without the windscreen, and 1.2 in (30 mm) with the windscreen. The microphone shall be terminated with a professional gold-plated 5 pin XLR connector. The microphone shall include an external windscreen. Windscreen shall be black metal grille. with set screw for securing to microphone head. The microphone shall require 48 V phantom power. The microphone shall be made of metal with black finish. The Earthworks FMLR500 or FMLR720 cardioid or FMLR500/HC or FMLR720/HC is specified.

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