

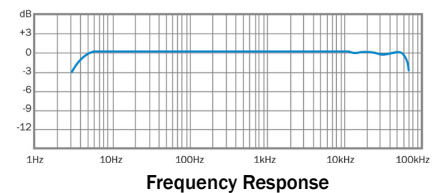
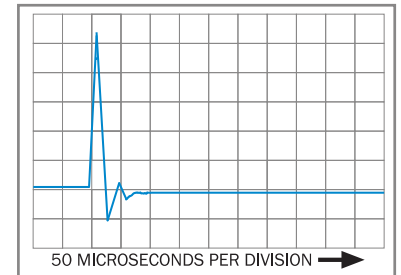
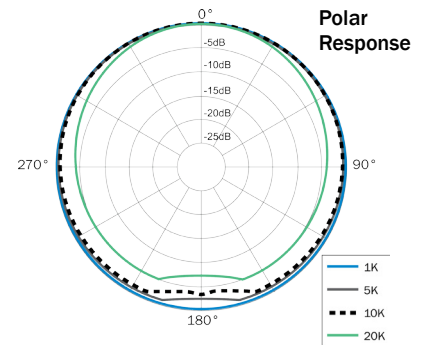
## SPECIFICATIONS

<b>Frequency Response:</b>	3Hz to 50kHz ± 1/-3dB
<b>Polar Pattern:</b>	Omnidirectional
<b>Sensitivity:</b>	36mV/Pa (Typical)
<b>Power Requirements:</b>	48V Phantom, 10mA
<b>Max Acoustic Input:</b>	140dB SPL
<b>Output:</b>	XLR-3 (pin 2+)
<b>Min. Output Load:</b>	600 ohms between pins 2 & 3
<b>Noise:</b>	20dB SPL (A weighted)
<b>Temp. Operating Range:</b>	-4° to 140°F (-20° to +60°C)
<b>Dimensions L x D:</b>	9 x .860 in. (229 x 22 mm)
<b>Weight:</b>	0.5 lb. (227g)

## ELECTRONIC CALIBRATION FILES

Electronic Calibration files are available for all models of Earthworks measurement microphones, so your specific microphone can be calibrated to your measurement software or system. For you to obtain your electronic calibration files (ECF), you must first register your microphone online at [earthworksaudio.com/register](http://earthworksaudio.com/register) and afterwards go to [earthworksaudio.com/ecf](http://earthworksaudio.com/ecf) to request your ECF file, which will be sent to you as an email attachment. If you have any questions, please call 603-654-2433, ext 114 or email: [sales@earthworksaudio.com](mailto:sales@earthworksaudio.com)

- Premium Measurement Microphone
- 50kHz Free-Field Frequency Response
- Meets or Exceeds Type 1 Specifications
- 140dB SPL Max Acoustic Input
- Used by Research Laboratories and Acousticians Throughout the World
- Ideal for SMAART™, MLSSA™, Spectrafoo™, TEF™, RTA and all “Audio Band” Measurements
- Requires 48V Phantom Power
- Multiple Measurement Microphones can be matched for a nominal fee
- Electronic Calibration Files are Available online after completing product registration at no cost



Earthworks M Series measurement microphones have become the accepted standard for reliable measurement and reference. They are accurate in the time and frequency domain and have exceptionally uniform polar response. They feature flat free-field frequency response, fast impulse response, and are remarkably stable with respect to temperature changes, meeting or exceeding Type 1 specifications. Our M Series measurement microphones are used and recommended by SMAART™, MLSSA™, Spectrafoo™, TEF™, RTA in addition to acoustic measurement systems manufactured by dbx, Rational Acoustics, DEQX and others.

Consultants, Acousticians, as well as Industrial and Research Laboratories throughout the world have sought after the extremely wide frequency range of the Earthworks M50. In addition, they have great respect for the near-perfect polar response of this microphone. The M50 provides a frequency response from 3Hz to 50kHz, and will handle 140dB SPL. For those looking for a premium “top of the line” measurement microphone designed to exacting standards, the Earthworks M50 is it.

The Earthworks line of measurement microphones (with exception to the M30BX, which is battery operated) require standard 48V phantom power and up to 10mA of current (which is within the industry phantom power standard). 10mA of current is required to supply our high current, bipolar Class A amplifier within the microphone that is made with

all discrete components, with no capacitors in the signal path providing excellent phase response. This also allows the microphone(s) to feed long signal lines up to 300 feet (91m) and maintain the full frequency response of the microphone at the other end of the line, without any loss in high frequencies.

The M50 comes in a protective carton with a custom die-cut foam insert and its own individual calibration chart. For those who desire calibration files to interface with their software, these are available at no cost. In addition, any number of microphones can be matched for a nominal fee. The M50 requires standard 48V phantom power for operation.

The M50 is the perfect choice for those who desire the utmost in precision, the widest in frequency response and superb polar response in an expertly manufactured precision measurement microphone. The M50 can be used in a wide variety of environments and will withstand the rigors of the road due to its robust design. The M50 is used in every critical environment from the most elegant of research laboratories to the recording of animal and bird sounds deep in the African jungle.

