

# TR40A TEST AND MEASUREMENT MICROPHONE

## OVERVIEW:

The TR40A is a 6 mm pre-polarized Type II condenser microphone used for test and measurement applications. The TR40A is known for its linearity, accurate response, consistency, ease of use and affordability.

Characterized with a uniformly controlled omni-directional polar pattern, the TR40A is designed to capture acoustic measurements for room analysis software programs, real time analyzers and other sound control devices. With a wide frequency range of 20 Hz - 20 kHz, it is an excellent tool for sound engineers and sound companies.

Requiring 9 - 52 Volts phantom power for operation, the TR40A features a cast metal body with black matte finish and includes a mic clip and carrying pouch.

## SUPPLIED ACCESSORIES:

Mic clip (MC2)  
Carrying pouch (P1)

## OPTIONAL ACCESSORIES:

DCLIP - Tension-fit heavy duty nylon mic clip  
TRIPOD - Tripod mic stand  
SMT-25 - Shockmount system  
CBL-20 - 20' XLR-XLR mic cable



## FEATURES:

6 mm electret capsule  
Linear response  
Cast metal housing  
Gold plated XLR  
Low noise electronics

## APPLICATIONS:

Test and measurement  
Real time analyzers  
Room analysis software programs  
Ambient room miking  
Audience mics for ear monitors  
Recording



TRIPOD



DCLIP



SMT-25



CBL-20

**SPECIFICATIONS:**

<b>Transducer Type</b>	<b>Pre-Polarized Condenser</b>
<b>Frequency Response</b>	<b>20 Hz - 20 kHz +/- 3 dB</b>
<b>Polar Pattern</b>	<b>Omni-directional</b>
<b>Output Impedance</b>	<b>200 Ohms</b>
<b>Open Circuit Sensitivity</b>	<b>12 mV / Pa</b>
<b>Equivalent Noise Level</b>	<b>28 dB (A weighted)</b>
<b>Signal to Noise Ratio</b>	<b>66 dB</b>
<b>Distortion</b>	<b>114 dB SPL 1%</b>
<b>Power Requirements</b>	<b>9 - 52 Volts phantom</b>
<b>Maximum SPL</b>	<b>120 dB</b>
<b>Cable/Connector</b>	<b>3 pin gold plated male XLR connector</b>
<b>Polarity</b>	<b>Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3</b>
<b>Housing / Finish</b>	<b>Cast Metal / Black Matte</b>
<b>Weight</b>	<b>132 g / 4.7 ounces</b>
<b>Length</b>	<b>191 mm / 7.5 inches</b>

**ARCHITECTS AND ENGINEERS SPECIFICATIONS:**

The microphone shall be a back plate pre-polarized condenser with an omni-directional polar pattern. The microphone shall operate on 9 - 52 Volts phantom power and the nominal output impedance shall be equal to 200 ohms at 1 kHz. The microphone shall have a sensitivity of 12 mV / Pa at 1 kHz. The microphone shall have a maximum SPL level of 120 dB with a THD of 1%. The microphone shall be machined from brass with dimensions of 21 mm diameter at the base, 12.7 mm diameter at the top and 191 mm in length. The microphone shall be the Audix TR40A.

**OPERATION AND MAINTENANCE:**

The TR40A is a low impedance microphone and should be plugged into a "mic level" input on your console, mixer or recording device. The TR40A will NOT operate without phantom power voltage (24 Volts minimum recommended) which is available on most professional mic preamps and mixing devices. If phantom power is not available on your equipment, you will have to purchase a phantom power supply (such as the Audix APS-2). Avoid plugging or unplugging the microphone from a PA system unless the channel is muted or the volume of the system is turned down. Failure to do so may result in a loud "popping" noise which could seriously damage the speakers in the PA system.

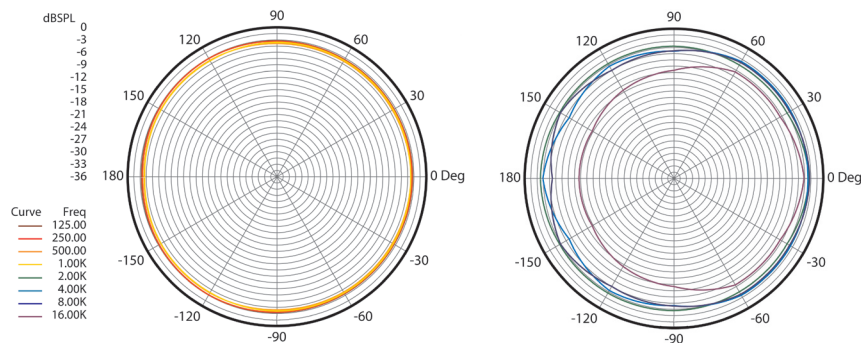
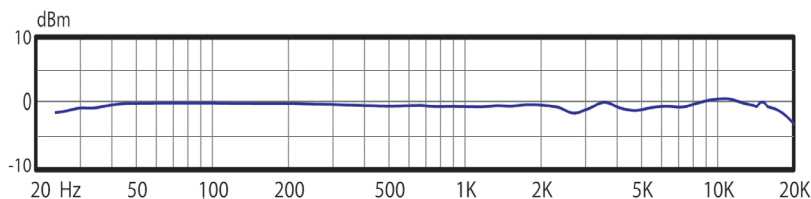
**USER TIPS:**

**Measurement:** The TR40A is an excellent choice for room analysis programs and real time analyzers. Just be sure that you are plugging the microphone into a low impedance input and that phantom power is available.

**Ambient room application:** The TR40A may be used to capture the "room sound" for in ear monitors. Typically, you would set up one microphone on each side of the stage in a mic stand facing the audience.

**Recording:** The TR40A has an excellent sound and can be used for miking acoustic instruments, room ambience or drum overheads.

\*Further miking techniques may be found on our website at [www.audixusa.com](http://www.audixusa.com)

**FREQUENCY / POLARS:****DIMENSIONS (mm):**

\*\*\*All specifications subject to change without notice.

**SERVICE AND WARRANTY:**

This microphone is under warranty for a period of 3 years from any and all manufacturing defects. Should your microphone fail in any way, please contact the Audix Service department at 503-682-6933. A Return Authorization number is required before returning any products.

**CARE AND MAINTENANCE:**

The TR40A is manufactured to exacting specs with roadworthy construction. However, the capsule is highly sensitive and should be handled with care. Avoid extreme temperatures and be sure to store your microphone in the pouch provided when not in use. Moisture of any kind can adversely affect the sound and performance of your microphone.

To register your  
microphone, please visit  
[www.audixusa.com](http://www.audixusa.com)



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