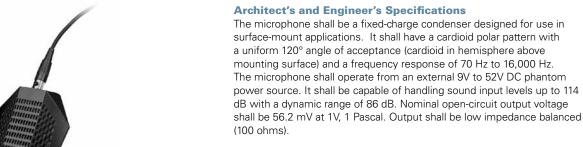
# **(A)** audio-technica

propoint® microphones

Cardioid Condenser Boundary Microphone



Features

- Wide-range condenser element with low-mass diaphragm for superior performance
- Uniform cardioid polar pattern for maximum rejection of unwanted sounds
- Self-contained electronics eliminate need for external power module
- · Rugged design and construction for reliable performance
- Low-profile design for minimum visibility

#### **Description**

The PRO 44 is a wide-range miniature condenser microphone with a cardioid polar pattern. It is designed for surface-mount applications such as high-quality sound reinforcement and other demanding sound pickup situations.

The microphone requires 9V to 52V phantom power for operation.

The microphone's cardioid polar pattern provides a 120° angle of acceptance (cardioid in hemisphere above mounting surface).

The microphone includes a 7.6 m (25') output cable terminating in TA3F-type and XLRM-type connectors.

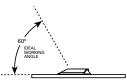
The microphone's rubber non-slip bottom pad minimizes mechanical coupling of surface vibration to the microphone. The microphone is enclosed in a rugged housing with a black finish.

#### **Installation and Operation**

The PRO 44 requires 9V to 52V phantom power for operation.

Output is low impedance (Lo-Z) balanced. The signal appears across Pins 2 and 3; Pin 1 is ground (shield). Output phase is "Pin 2 hot"—positive acoustic pressure produces positive voltage at Pin 2.

The microphone should be placed on a flat, unobstructed mounting surface, with the front of the microphone facing the sound source. The sound source should not be below, or higher than 60° above, the plane of the mounting surface.



Avoid leaving the microphone in the open sun or in areas where temperatures exceed 110° F (43° C) for extended periods of time. Extremely high humidity should also be avoided.

The microphone shall incorporate self-contained electronics, eliminating the need for an external power module. The microphone shall have a 7.6 m (25') output cable with TA3F-type to XLRM-type connectors.

The microphone shall have a maximum width of 73.0 mm (2.87"), a maximum length of 90.5 mm (3.56") and a maximum height of 15.5 mm (0.59"). Weight shall be 67 grams (2.4 oz). Finish shall be low-reflectance black.

The Audio-Technica PRO 44 is specified.

## **PRO 44**

### **Specifications**

Element Fixed-charge back plate, permanently polarized condenser Polar pattern Half-cardioid (cardioid in hemisphere above mounting surface) 70-16,000 Hz Frequency response -25 dB (56.2 mV) re 1V at 1 Pa Open circuit sensitivity Impedance 100 ohms Maximum input sound level 114 dB SPL, 1 kHz at 1% T.H.D. Dynamic range (typical) 86 dB, 1 kHz at Max SPL Signal-to-noise ratio1 66 dB, 1 kHz at 1 Pa Phantom power requirements 9-52V, 2 mA typical Weight 67 g (2.4 oz) Dimensions 90.5 mm (3.56") maximum length, 73.0 mm (2.87") maximum width, 15.0 mm (0.59") maximum height Output connector TB3M-type 7.6 m (25') long, 2.6 mm (0.10") Cable diameter, 2-conductor, shielded cable with TA3F-type and XLRM-type connectors

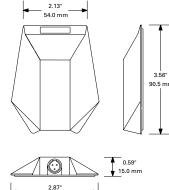
In the interest of standards development, A.T.U.S. offers full details on its test methods to other industry professionals on request.

1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL 

<sup>1</sup> Typical, A-weighted, using Audio Precision System One.

Specifications are subject to change without notice.





73.0 mm

