

PRO 49Q & PRO 49QL



Cardioid Condenser Quick-Mount Gooseneck Microphones

propoint® microphones



Features

- **Quick-mount design with 3-pin XLRM-type connector insert at base plugs into any standard XLRF-type surface or cable connector**
- **Wide-range condenser element with low-mass diaphragm for superior performance**
- **Cardioid polar pattern with 120° acceptance angle**
- **Self-contained electronics eliminate need for external power modules**
- **Flat, smooth frequency response**
- **Quiet, fixed-placement, long-life gooseneck**
- **Foam windscreen offers resistance to P-pops and other breath blasts**

Description

The PRO 49Q is a wide-range condenser microphone with a cardioid polar pattern. It is designed to provide clear, intelligible sound reproduction in a wide range of settings, such as conferences, courtrooms, houses of worship and other demanding sound pickup applications.

The small-diameter double gooseneck design permits highly flexible positioning while maintaining a smooth, well-contoured appearance. The PRO 49Q stands 332.0 mm (13.07") from the table or podium; it is also available in a 418.0 mm (16.46") version as PRO 49QL. The two models are identical in all other respects.

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

The microphone's cardioid polar pattern provides a 120° angle of acceptance.

An XLRM-type connector insert at the base allows the microphone to be plugged directly into an XLRF-type panel jack or microphone cable.

The microphone comes equipped with a foam windscreen. The microphone is enclosed in a rugged housing with a low-reflectance black finish.

Installation and Operation

The PRO 49Q 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 provided foam windscreen simply slips over the head of the microphone, effectively reducing wind noise or popping.

Avoid leaving the microphone in the open sun or in areas where temperatures exceed 110° F (43° C) for extended periods. Extremely high

humidity should also be avoided.

Architect's and Engineer's Specifications

The microphone shall be a fixed-charge condenser designed for permanent installation or portable applications. It shall have a cardioid polar pattern with a uniform 120° angle of acceptance and a frequency response of 70 Hz to 16,000 Hz. The microphone shall operate from an external 9V to 52V DC phantom power source. It shall be capable of handling sound input levels up to 134 dB with a dynamic range of 106 dB. Nominal open-circuit output voltage shall be 14.1 mV at 1V, 1 Pascal. Output shall be low impedance balanced (100 ohms).

The microphone shall incorporate a self-contained power module with an XLRM-type connector at the base for direct connection to a mating XLRF-type panel jack or cable connector.

A foam windscreen shall be included.

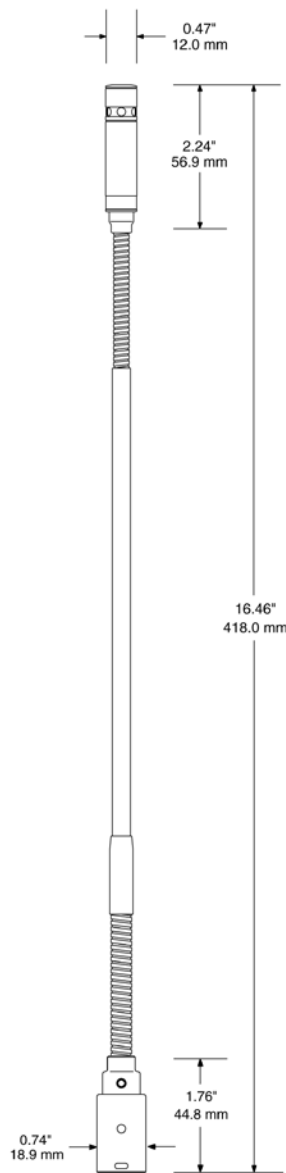
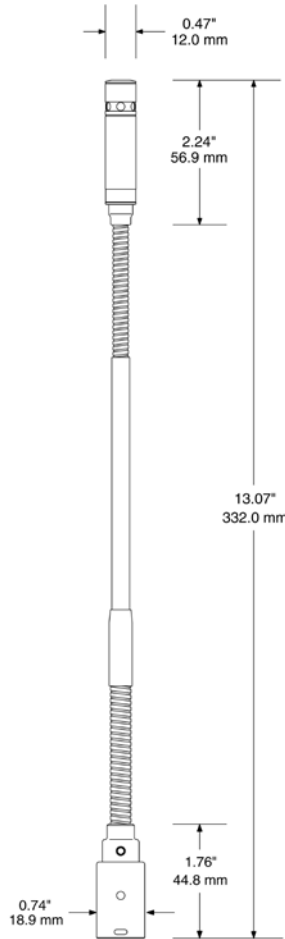
The microphone shall be a small-diameter alternating gooseneck design, with an overall length of 332.0 mm (13.07") [418.0 mm (16.46")] and a head diameter of 12.0 mm (0.47"). Weight shall be 80 grams (2.8 oz) [84 grams (3.0 oz)]. Finish shall be low-reflectance black.

The Audio-Technica PRO 49Q [PRO 49QL] is specified.

PRO 49Q & PRO 49QL

PRO 49Q

PRO 49QL



Specifications

Element	Fixed-charge back plate, permanently polarized condenser
Polar pattern	Cardioid
Frequency response	70-16,000 Hz
Open circuit sensitivity	-37 dB (14.1 mV) re 1V at 1 Pa
Impedance	100 ohms
Maximum input sound level	134 dB SPL, 1 kHz at 1% T.H.D.
Dynamic range (typical)	106 dB, 1 kHz at Max SPL
Signal-to-noise ratio	66 dB, 1 kHz at 1 Pa
Phantom power requirements	9-52V DC, 2 mA typical
Weight	PRO 49Q: 80 g (2.8 oz) PRO 49QL: 84 g (3.0 oz)
Dimensions	PRO 49Q: 332.0 mm (13.07") long, 12.0 mm (0.47") head diameter, 18.9 mm (0.74") base diameter PRO 49QL: 418.0 mm (16.46") long, 12.0 mm (0.47") head diameter, 18.9 mm (0.74") base diameter
Output connector	Integral 3-pin XLRM-type
Audio-Technica case style	M23
Accessory furnished	AT8146 windscreen

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

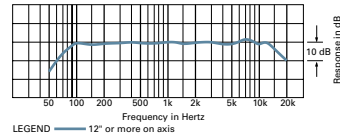
1 Pascal = 10 dynes/cm² = 10 microbars = 94 dB SPL

¹ Typical, A-weighted, using Audio Precision System One.

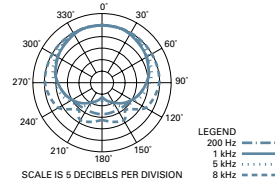
Specifications are subject to change without notice.



frequency response: 70-16,000 Hz



polar pattern



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