

AT815b LINE + GRADIENT CONDENSER MICROPHONE



- Designed for video production and broadcast (ENG/EFP) audio acquisition
- Provides the narrow acceptance angle desirable for long-distance sound pickup
- Excellent sound rejection from the sides and rear of mic
- Switchable low-frequency roll-off
- Operates on battery or phantom power

The AT815b requires 9V to 52V DC phantom power *or* a 1.5V AA battery for operation. A battery need not be in place for phantom power operation.

Battery installation: Unscrew the lower section of the microphone body, just below the nameplate. Insert a fresh 1.5V AA battery in the handle compartment (“+” end up), then reassemble the microphone. Alkaline batteries are recommended for longest life. Remove the battery during long-term storage.

Output from the microphone’s XLRM-type connector 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.

An integral 180 Hz high-pass filter provides easy switching from a flat frequency response to a low-end roll-off. The roll-off position reduces the pickup of low-frequency ambient noise (such as traffic, air-handling systems, etc.), room reverberation and mechanically coupled vibrations.

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.

AT815b SPECIFICATIONS†

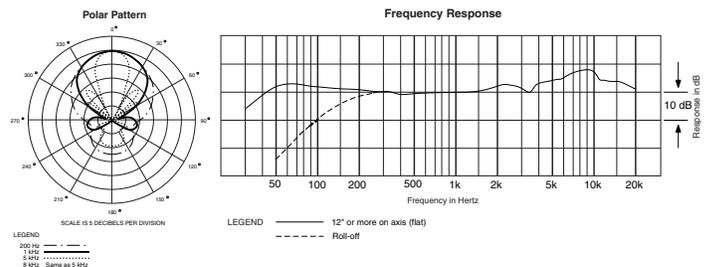
ELEMENT	Fixed-charge back plate permanently polarized condenser
POLAR PATTERN	Line + gradient
FREQUENCY RESPONSE	30-20,000 Hz
LOW-FREQUENCY ROLL-OFF	180 Hz, 12 dB/octave
OPEN CIRCUIT SENSITIVITY (Phantom / Battery)	-38 dB (12.5 mV) / -39 dB (11.2 mV) re 1V at 1 Pa*
IMPEDANCE (Phantom / Battery)	500 ohms / 600 ohms
MAXIMUM INPUT SOUND LEVEL (Phantom / Battery)	130 dB / 115 dB SPL, 1 kHz at 1% T.H.D.
SIGNAL-TO-NOISE RATIO ¹	70 dB, 1 kHz at 1 Pa*
DYNAMIC RANGE (typical) (Phantom / Battery)	106 dB / 91 dB, 1 kHz at Max SPL
PHANTOM POWER REQUIREMENTS	9-52V DC, 2 mA typical
BATTERY TYPE	1.5V AA/UM3
BATTERY CURRENT / LIFE	0.4 mA / 1200 hours typical
SWITCH	Flat, roll-off (recessed)
WEIGHT (less accessories)	7.1 oz (200 g)
DIMENSIONS	18.11" (460.0 mm) long, 0.83" (21.0 mm) diameter
OUTPUT CONNECTOR	Integral 3-pin XLRM-type
ACCESSORIES FURNISHED	AT8405a stand clamp for 5/8"-27 threaded stands; windscreen; battery; protective carrying case

†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.



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