

MT830R MINIATURE OMNIDIRECTIONAL CONDENSER MICROPHONE



- High intelligibility for lecturers, stage/TV performers and singers
- Provides excellent yet unobtrusive sound pickup
- Wide-range capability ensures clean, accurate reproduction
- Operates on phantom power only

The MT830R is designed to be worn as a lavalier or hidden in loose clothing or in the hair. For use as a lavalier, attach the microphone about six inches below the chin. Anticipate movements that may cause the microphone to rub against or be covered by clothing, and position the microphone to avoid it.

The MT830R is intended for use in professional applications where remote power is available. It requires 9V to 52V DC phantom power, which may be provided by a mixer or console, or by a separate, in-line source such as the Audio-Technica AT8801 single-channel or CP8506 four-channel phantom power supplies.

Output from the power module'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.

To avoid phase cancellation and poor sound, all mic cables must be wired consistently: Pin 1-to-Pin 1, etc.

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.

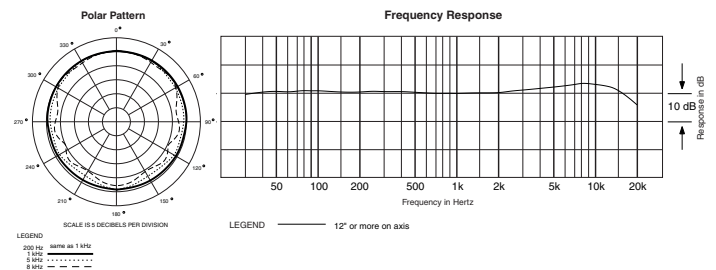
MT830R SPECIFICATIONS†

ELEMENT	Fixed-charge back plate permanently polarized condenser
POLAR PATTERN	Omnidirectional
FREQUENCY RESPONSE	30-20,000 Hz
OPEN CIRCUIT SENSITIVITY	-34 dB (19.9 mV) re 1V at 1 Pa*
IMPEDANCE	200 ohms
MAXIMUM INPUT SOUND LEVEL	131 dB SPL, 1 kHz at 1% T.H.D.
DYNAMIC RANGE (typical)	107 dB, 1 kHz at Max SPL
SIGNAL-TO-NOISE RATIO¹	70 dB, 1 kHz at 1 Pa*
PHANTOM POWER REQUIREMENTS	9-52V DC, 2 mA typical
WEIGHT (less cable and accessories)	
MICROPHONE	0.05 oz (1.3 g)
POWER MODULE	1.81 oz (51.4 g)
DIMENSIONS	
MICROPHONE	0.62" (15.8 mm) long, 0.33" (8.5 mm) wide, 0.19" (5.0 mm) thick
POWER MODULE	3.13" (79.5 mm) long, 0.83" (21.0 mm) diameter
OUTPUT CONNECTOR	Integral 3-pin XLRM-type
CABLE	25' (7.6 m) long (permanently attached to microphone), 0.10" (2.5 mm) diameter, 2-conductor, shielded cable with TA3F output connector
ACCESSORIES FURNISHED	AT8533 power module; clothing clip; windscreens

† 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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