

U 89

VARIABLE PATTERN MICROPHONE

This studio microphone presents improved acoustical and electrical characteristics and better high end response when compared to the U 87 A. It has a dynamic range of 123dB, five polar patterns, a 6dB pad, and a 2 position LF roll-off switch. The U 89 has little or no off-axis coloration.

Famous for broadcast use, the U 89 is recommended as a general orchestral microphone and for narration and vocals. All high impedance components are protected against contamination, making it highly reliable and stable over long periods of operation.



U89a is sold individually or in configurations mated with popular accessories for stand mounting.

Directional pattern	Omni, wide-angle cardioid, cardioid, hypercardioid, figure 8	
Acoustic operating principle	Pressure-gradient-transducer	
Frequency range	Hz	20 - 20,000
Sensitivity ¹⁾	mV/Pa	8
Rated impedance	ohms	150
Equivalent loudness level due to inherent noise		
DIN 45 405 CCIR 468-3	dB	28
DIN/IEC 651	dB-A	17
S/N ratio re 1 Pa at 1 kHz		
CCIR	dB	66
A-weighted	dB-A	77
Max. SPL for less than 0.5% THD ²⁾		
without preattenuation	dB	134
with preattenuation	dB	140
Total dynamic range of the microphone amplifier ³⁾	dB	123
Power Consumption ⁴⁾	mA	0.8
Weight	g	400
Dimensions		
diameter	mm	46
length	mm	185

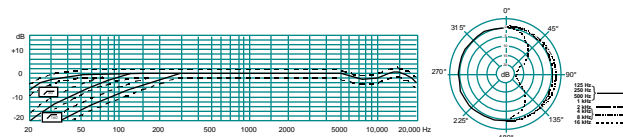
¹⁾ 1 Pa = 94 dB SPL, at 1kHz into 1 k ohm load impedance

²⁾ THD of the microphone amplifier when an input level equivalent to the capsule output at the specified SPL is applied

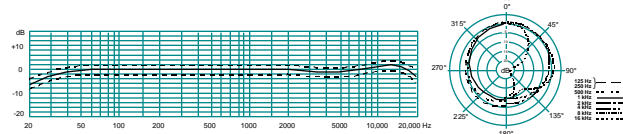
³⁾ Referred to DIN/IEC 651 A-weighted equivalent loudness level

⁴⁾ All microphones are 48 V ±4 V phantom powered (P 48 according to DIN 45596/IEC 8 15)

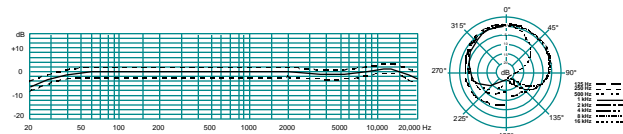
OMNIDIRECTIONAL



WIDE ANGLE CARDIOID



CARDIOID



HYPERCARDIOID

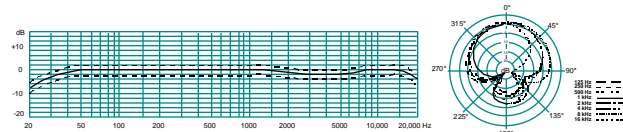


FIGURE 8

