



PUBLIC ADDRESS & SECURITY SYSTEM * ELECTRONIC SIRENS

MICROPHONE SPECIFICATIONS

All measurements taken with
Supplied preamplifier and microphone
mounted on a 80cm x 80cm wooden
surface.

Polar Pattern

BM 38C	-	Cardioid
BM 38S	-	Supercardioid
BM 38H	-	Half Cardioid
BM 38O	-	Omnidirectional

Frequency Response

30 to 20,000 Hz

Output Impedance (at 1000 Hz)

168 ohms actual

Open Circuit Sensitivity

At: 1 kHz ref. 1 V per Pascal *

Cardioid:	-29 dB
Supercardioid:	-28 dB
Half Cardioid:	-24 dB
Omnidirectional :	-21 dB

All settings :

-12 dB at 0 gain; *1 Pascal = 94 dB SPL

Maximum Sound Pressure Level

At: (1 kHz at 1% Total Harmonic Distortion, 1
k ohm load)

Cardioid:	121 dB
Supercardioid:	124 dB
Half Cardioid:	118 dB
Omnidirectional:	112 dB

All settings +6 dB at 0 gain

Signal to Noise Ratio

referenced at 94 dB SPL

Cardioid:	71 dB
Supercardioid:	72 dB
Half Cardioid:	74 dB
Omnidirectional:	77 dB

Equivalent Output Noise (A-weighted)

Cardioid:	21 dB
Half Cardioid:	18 dB
Supercardioid:	21 dB
Omnidirectional:	16 dB

Dynamic Range

96 dB

Common Mode Rejection

48 dB minimum, 10 Hz to 100 kHz

Preamplifier Output Clipping Level

-6 dBV (0.5 V)

Polarity

Positive sound pressure on diaphragm
produces positive voltage on pin 2 relative to
pin 3 of output connector.

Power Requirements

9 to 52 Vdc phantom 2.0 mA

Environmental Requirements

Operating Temperature Range:

-18 to 57 degrees C

Relative Humidity: 0 to 95%

Dimensions and weight

110mm x 120mm, 460gram

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