



Frequently Asked Questions



v1.0

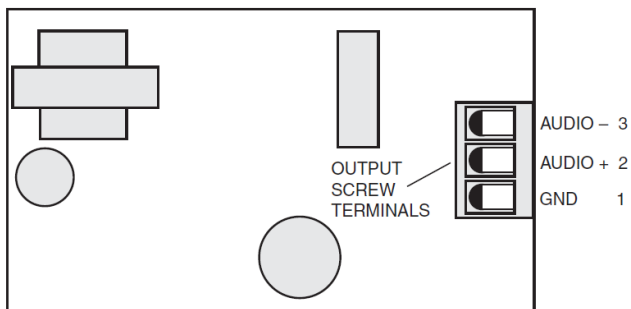
PZM11 Boundary Layer Microphone Quick Reference Guide

24-Nov-20

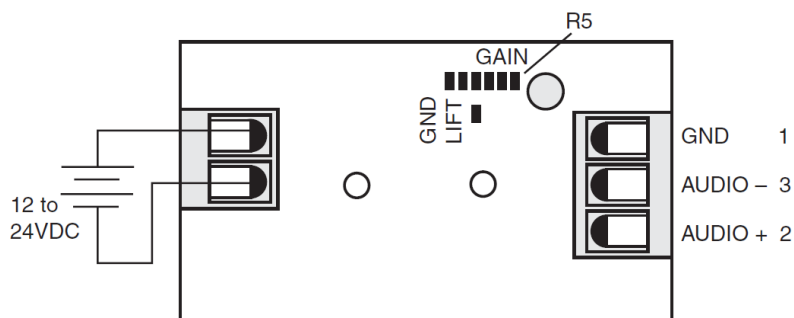
Model	Part#	Description	Powered by
PZM11	3326H00010	6000H50820 Mic Level	Phantom Power
PZM11LL	3340H00010	6000H50960 Line level (* Can be modified for PP operation)	VAC or VDC*
PZM11LLWR	3325H00010	6000H50810 Line Level Weather Resistant	VAC or VDC
PZM11LLPP	3340V00010	Line Level Phantom Power	Phantom Power
PZM11LLWRPP	3325V00010	Line Level Weather Resistant Phantom Power	Phantom Power

Power

The PZM11, PZM11LLPP and PZM11LLWRP can only be powered by Phantom Power.



The PZM11LL and PZM11LLWR can be powered by 24VAC or by 12 to 24VDC.



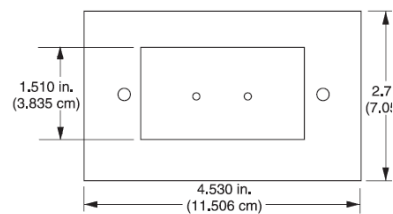
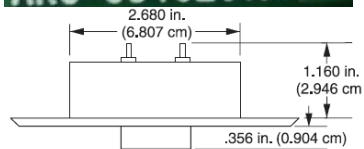
*The PZM11LL Can be modified to operate with Phantom Power by moving R14 to R13. (R14 is a zero Ω resistor).

This can also be done by removing R14 and placing a Jumper across R13.

Gain Adjustment

By default R5 is 1K Ω resistor. The gain can be adjusted by swapping this resistor. The mic comes with preloaded surface-mount resistors.

- 1K minimum headroom
- 2K 6 dB more headroom
- 3.9K 12 dB more headroom
- 8.2K 18 dB more headroom
- 100K maximum headroom (**mic level**)



Specifications

Type: Pressure Zone Microphone.

Element: Electret condenser.

Frequency response (typical): 80 Hz to 20,000 Hz.

Polar pattern: Hemispherical.

Impedance:

PZM-11: 225 ohms, balanced.

PZM-11LL: 75 ohms, balanced.

Recommended minimum load impedance 1000 ohms.

Open circuit sensitivity:

PZM-11: 5 mV/Pa* (−46 dBV/Pa).

PZM-11LL: 1.4V/Pa* (+3 dB re 1V/Pa).

Power sensitivity:

PZM-11: −45.5 dBm/Pa*

PZM-11LL: +8 dBm/Pa*.

Equivalent noise level (self-noise): 26 dB SPL typical
(0 dB = .0002 dyne/cm²), A-weighted.

S/N Ratio: 68 dB at 94 dB SPL.

Maximum SPL:

PZM-11: 120 dB SPL produces 3% THD.

PZM-11LL: 100 dB SPL produces 3% THD.

Output connector: Three screw terminals.

1 = ground, 2 = audio hot (in polarity),

3 = audio cold (opposite polarity).

Polarity: Positive pressure on the diaphragm produces a positive voltage on screw terminal 2 with respect to screw terminal 3.

Operating voltage:

PZM-11: Standard phantom power, 12 to 48V DC on screw terminals 2 and 3 with respect to screw terminal 1.

PZM-11LL: 24V AC, 12-24V DC, or phantom power as the PZM-11LL modified.

Current drain:

PZM-11: 400 microamperes.

PZM-11LL: 4 milliamperes.

Materials: Steel plate and high-impact plastic capsule holder.

Finish: Off-white. May be painted any color; take care to first seal the opening between the mic capsule and boundary plate.

Operating Temperature Range: −10° to +60° C
(+14° to +140° F).

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