

Single Pickup Preamp Module

Operating Instructions

Description: The Pendulum Single Pickup Preamp Module is a phantom-powered preamp designed for interfacing a piezo or magnetic pickup with a powered (+48Vdc) mic input. It has a very high input impedance, a low impedance, balanced, line-level output, provides up to 20 db of gain, and is designed for low noise/low distortion operation.

Specifications:

Input:	10 M Ω unbalanced, EIN less than -116 dbu
Frequency Response:	20 - 20,000 Hz, 0/-1 db
Distortion:	THD less than 0.01 % at 0 dbu
Gain:	0 to 20 db, adjustable
Output:	600 Ω balanced, line level
Power Requirements:	+48 Vdc @ 4 mA, applied to pins 2 and 3 via 6.8K Ω resistors.

- Instructions:
- Connect the 3 pin miniconnector end of the cable to the Preamp Module, and the XLR end to the phantom-powered input. Note: Since the output is a balanced line signal, the cable can be extended either with a standard microphone-type cable or led through a 'snake' for long distances with no loss of sound quality.
 - Connect the Preamp Module input directly to the pickup by plugging the module into the instrument's 1/4" endpin jack.
 - If the Preamp Module is being used with a phantom-powered microphone input on a mixing board, be sure than the phantom power is switched on, and the input sensitivity (trim) is set for low gain to prevent input overload. In some cases, it may be necessary to use the input pad on the input channel also.
 - While strumming your instrument at the loudest level you'll be playing, turn up the Level control on the Preamp Module and adjust the GAIN Trimpot (screwdriver adjustable, on the top of the module) to the point where overload distortion is heard. Note this setting and back off a little on the trimpot to allow sufficient headroom. With some very low level transducers, you may need to run the GAIN at full level.
 - Note: Some battery-powered phantom supplies do not conform to the +48Vdc standard. If you're having difficulty getting the Preamp Module to work properly, please check the specifications on the supply you're using to make sure it delivers +48Vdc and at least 4mA.

If you're still having difficulty, please give us a call and we'll help you straighten it out.
