Warranty and service:

This part is warranted for 1 year, subject to the general warranty terms and conditions noted on our website:

www.aquarianaudio.com/warranty.html

This device is not intended to be waterproof.

Contact Aquarian Audio for technical support:

Aquarian Audio Products
1004 Commercial Ave, #225
Anacortes, WA 98221, USA
www.aquarianaudio.com
sales@aquarianaudio.com
360-299-0372

AQUARIAN AUDIO PRODUCTS

AQUARIAN AUDIO

PA1-P48

Hydrophone Buffer / Preamp

For interfacing piezo hydrophones to phantom-powered microphone preamps

PA1-P48

Thank you for your purchase of the PA1-P48 Buffer / Preamp. This module is designed to provide impedance conversion, making passive piezo hydrophones compatible with professional-grade microphone preamplifiers. These include preamps that are built into digital recorders, PA systems, mixing consoles, and high-quality computer sound interfaces. It can also adapt piezo contact mics, electric guitars and other high-impedance audio signals to these audio devices.

The PA1-P48 offers a low-cost alternative for underwater recording enthusiasts. Intended to be an entry-level module among the Aquarian Audio line, The PA1-P48 uses cost-effective cables and connectors with a simple and versatile low-noise FET amplifier that will not compromise the quality of your recording.

USE:
No adjustment to this device or special knowledge is necessary. Simply connect the hydrophone to the adapter and the adapter to the mic input of your audio device.

Phantom power is required and will probably need to be switched on, either with a physical switch or within the menu system of your audio device.

Phantom power is an option with most professional-grade audio devices with microphone inputs. 48 volts (P48) is the original standard by which most manufacturers comply, but the need for lower power consumption in battery-powered devices, along with simplification of design led to other standards. This module should work with any available phantom power supply, but performance may vary with alternate standards. We recommend trying each if you have the option and choosing which works best for your application.

The following specifications are based on use with IEC P48 phantom power. Your results when using alternate phantom powering standards may vary. See previous page for more detail.

20 Hz to 20KHz unweighted, RMS voltage, unless otherwise noted:

Gain:	3 dB	<1>
Noise:	< 11µV	10nF shunt
Response:	+0.5, -0.1	dB
THD:	<0.06%	<2>
Input:	6.3mm TS	<3><4>
Z in:	300 KΩ	<4>
Max input:	300mV	<1>10%THD
Output:	XLR male	<4><5>
Z out:	6.8KΩ	<1>

<1> These specs are strongly influenced by the phantom power supply
<2> Class “A” operation offers soft clipping at high amplitude and distortion is not noticeable at normal amplitudes.
<3> Standard connector--also referred to as 1/4” mono phone plug.
<4> Can be modified per user requirements.
<5> Full-size 3-pin, pin 1=GND; pin 2= hot; pin 3=unused (single-ended output)