

AMP-1BB-AE Broadband Preamplifier for Standard AE Sensors



AMP-1BB-AE with KRN150 sensor

The KRN **AMP-1BB-AE** is a single channel broadband preamplifier designed to interface standard non-preamplified sensors to your Data Acquisition System or AE Test System for signal capture and analysis. The wide frequency range allows use with a variety of sensors including the KRNBB-PCP pulsable broadband sensor, the KRN150, KRNm500, and KRN300, among others. The **AMP-1BB-AE** is also compatible with most non-preamplified sensors from other manufacturers.

The **AMP-1BB-AE** has an internal universal-input AC/DC power supply. The **AMP-1BB-AE** can be used with an external DC power supply if preferred. External DC power can be connected to a BNC connector on the rear panel and a power source selector switch is used to choose the power source.

The **AMP-1BB-AE** provides 40dB of gain over a broad spectrum of frequencies.

A unique feature of the **AMP-1BB-AE** is the “power jumper” connectors. These amplifiers have both male and female AC power connectors allowing amplifiers to be “chained” together from a single AC outlet. This greatly reduces power cabling when using multiple amplifiers.

Typical Preamplifier Electrical Characteristics:

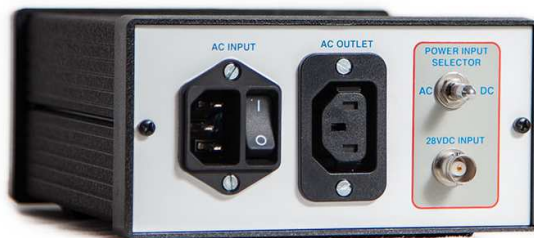
Bandwidth (3dB)	20 kHz to >2.0 MHz
Gain	40dB (measured at 500kHz)
Input Noise	≤ 10mV(sensor with 6 ft cable):
Input Resistance:	453 ohm (Configured to bias jfet)
Input Capacitance:	DC isolation (10uF 50v)
Input Protection:	NA
Maximum Output Voltage:	24V (clip)
Output Impedance:	50 ohm
Output Noise	2.3mV (External DC Supply)
	5.6mV (Internal AC Supply)
Input power – selectable:	90-264 VAC 50-60Hz or
	24-28 VDC

Mechanical Specifications

Dimensions	mm: 216W x 133H x 254D (in: 8.5W x 5.25H x 10.0D)
Weight	853g (1.88lb)

Connectors

Sensor In/Out:	BNC (50 ohm)
Power in AC:	IEC320-C14
Power out AXC:	IEC320-C13
Power DC (external):	BNC (50 ohm, switched)



AMP-1BB-AE back panel



AMP-1BB-AE "power jumper"