

AMP-4BB-J Broadband Preampifier for KRNBB-PC Point Contact Sensor



AMP-4BB-J



KRNBB-PC

The KRN **AMP-4BB-J** is a 4 channel broadband preamplifier designed to interface the KRNBB-PC sensor to your Data Acquisition System or AE Test System for signal capture and analysis.

The **AMP-4BB-J** provides power to the current amplifier integral to the **KRNBB-PC** broadband sensor. The **AMP-4BB-J** has an internal universal-input AC/DC power supply. The **AMP-4BB-J** 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 user can select one of two different gain modes for operation. The "Cal Mode" provides -0.92 dB (x0.9) of preamplifier gain while "Test Mode" provides 27dB of gain over a broad spectrum of frequencies. Each preamplifier channel can be individually set to Cal or Test mode. This lower gain is suitable for a variety of conditions, including high signal amplitude conditions.

KRN AMP-4BB-J

Typical Preamplifier Electrical Characteristics:

Bandwidth (3dB)	Cal Mode: 7 kHz to 2 MHz Test Mode: 15.4 kHz to 1.8 MHz
Input Noise (sensor with 6 ft cable):	Cal Mode: $\leq 1\text{mV}$ Test Mode: $\leq 10\text{mV}$
Input Resistance:	453 ohm (Configured to bias jfet)
Input Capacitance:	DC isolation (10uF 50v)
Input Protection:	NA
Maximum Output Voltage:	Test Mode: 24V (clip) Cal Mode: 4V (clip)
Output Impedance:	50 ohm
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	2.94 kg (6.48 lb)

Connectors

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



AMP-4BB-J back panel