DJB Instruments
SENSING ENGINEERING INNOVATION

CV9-V

9 Channel IEPE Signal Conditioner

The CV9-V is a 9 channel IEPE signal conditioner contained within a compact 1U high 19" rack mount unit, this can also be bench mounted using the rubber feet supplied.

Using front panel mounted BNC inputs and outputs it provides an easy set up solution, with individual gain selection via a three pole switch, which offers the user the option of x1, x10 or X100 gain individually selectable for each channel, making is extremely flexible when used with mixed accelerometer outputs.

With a low noise floor the CV9-V is a great all round low cost per channel solution, which can be used with any IEPE accelerometer or other IEPE transducer on the market. With wide frequency band capability it offers a versatile solution.

Gain	x1	x10	x100
Bandwidth	500kHz	500kHz	100kHz

Features
- Short Circuit/open circuit warning Indicator.
- IEPE Constant Current Source, user selectable via internal jumpers.
- Switchable Gain of x1, x10, and x100 individual channel selectable.
- Front panel BNC input/output connectors.
- 19" Rack Mountable Enclosure

Front Connections

Rear Connections

Specification	Metric	Imperial
Performance		
Indicators	Short Circuit/open circuit Warning LED	
Input Gain per channel	x1, x10 and x100.	
Channels	9	
Sensor Excitation Voltage	+24V DC	
IEPE Current	2-14mA user selectable	
Connections		
Inputs	9 x BNC jacks	
Outputs	9 x BNC jacks	
Environmental		
Operating Temp.	0 to +45°C	32 to 113°F
Power		
Input Connector	IEC 320	
Input	105 – 240 VAC	
Status	LED Power Indicator on Front Panel	
Max Power Rating	5W	
Fuse rating	1A slow blow	
Physical		
Weight	2.75kg	6.06lbs
Size	H 44.5mm W 482.6mm D 348mm	H 1.75in W 19in D 13.7in

Electrical Performance	
Broadband Electrical Noise (1 to 10,000Hz) (Gain x1)	11.2 µV rms
Spectral Noise (1 Hz)	1.34 µV/√Hz
Spectral Noise (10 Hz)	0.20 µV/√Hz
Spectral Noise (100 Hz)	0.12 µV/√Hz
Spectral Noise (1 kHz)	0.12 µV/√Hz
Spectral Noise (10 kHz)	0.10 µV/√Hz
Broadband Electrical Noise (1 to 10,000Hz) (Gain x10)	21 µV rms
Spectral Noise (1 Hz)	5.10 µV/√Hz
Spectral Noise (10 Hz)	0.60 µV/√Hz
Spectral Noise (100 Hz)	0.22 µV/√Hz
Spectral Noise (1 kHz)	0.22 µV/√Hz
Spectral Noise (10 kHz)	0.19 µV/√Hz
Broadband Electrical Noise (1 to 10,000Hz) (Gain x100)	165 µV rms
Spectral Noise (1 Hz)	57 µV/√Hz
Spectral Noise (10 Hz)	5.20 µV/√Hz
Spectral Noise (100 Hz)	1.70 µV/√Hz
Spectral Noise (1 kHz)	1.80 µV/√Hz
Spectral Noise (10 kHz)	1.40 µV/√Hz

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A UK company with UK-based manufacturing, assembly and calibration in-house.

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