

## CV9DC-CV

### 9 Channel Charge/IEPE Amplifier – DC Powered



The CV9DC-CV is a DC Powered 9 channel charge and IEPE amplifier 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 it extremely flexible when used with mixed accelerometer outputs.

The CV9DC-CV offers the ultimate in flexibility and allows a mix of IEPE and Charge accelerometers to be used at the same time due to individual channel selection for suitable signal conditioning and amplification.

Gain	Bandwidth
x 1	500kHz
x 10	500kHz
x 100	100kHz

#### Front Connections



#### Rear Connections



#### Features

- IEPE/Charge Individual channel selection
- Short Circuit/open circuit warning Indicator.
- Gain of x1, x10 and x100 individual channel selectable.
- Front panel BNC input/output connectors.
- 19" Rack Mountable Enclosure

Specification	Metric	Imperial
<b>Performance</b>		
Indicators	Short circuit/open circuit Warning LED	
IEPE/Charge Selection	Individual channel selection	
Input Gain per channel	x1, x10 and x100	
Channels	9	
Max Output per channel	±10VAC	
<b>Connections</b>		
Inputs	9 x BNC jacks	
Outputs	9 x BNC jacks	
<b>Environmental</b>		
Operating Temp.	0 to +45°C	32 to 113°F
<b>Power</b>		
Input Connector	3 Pole XLR Connector	
Input	9 - 30 VDC	
Status	LED Power Indicator on Front Panel	
Max Power Rating	5W	
Fuse rating	1A slow blow	
<b>Physical</b>		
Weight	2.75kg	6.06lbs
Size	H 44.5mm, W 482.6mm, D 348mm	H 1.75in, W 19in D 13.7in

#### Electrical Performance

<b>Broadband Electrical Noise (1 to 10,000Hz) (Gain x1)</b>	11.2 $\mu$ V rms
Spectral Noise (1 Hz)	1.34 $\mu$ V/ $\sqrt$ Hz
Spectral Noise (10 Hz)	0.20 $\mu$ V/ $\sqrt$ Hz
Spectral Noise (100 Hz)	0.12 $\mu$ V/ $\sqrt$ Hz
Spectral Noise (1 kHz)	0.12 $\mu$ V/ $\sqrt$ Hz
Spectral Noise (10 kHz)	0.10 $\mu$ V/ $\sqrt$ Hz
<b>Broadband Electrical Noise (1 to 10,000Hz) (Gain x10)</b>	21 $\mu$ V rms
Spectral Noise (1 Hz)	5.10 $\mu$ V/ $\sqrt$ Hz
Spectral Noise (10 Hz)	0.60 $\mu$ V/ $\sqrt$ Hz
Spectral Noise (100 Hz)	0.22 $\mu$ V/ $\sqrt$ Hz
Spectral Noise (1 kHz)	0.22 $\mu$ V/ $\sqrt$ Hz
Spectral Noise (10 kHz)	0.19 $\mu$ V/ $\sqrt$ Hz
<b>Broadband Electrical Noise (1 to 10,000Hz) (Gain x100)</b>	165 $\mu$ V rms
Spectral Noise (1 Hz)	57 $\mu$ V/ $\sqrt$ Hz
Spectral Noise (10 Hz)	5.20 $\mu$ V/ $\sqrt$ Hz
Spectral Noise (100 Hz)	1.70 $\mu$ V/ $\sqrt$ Hz
Spectral Noise (1 kHz)	1.80 $\mu$ V/ $\sqrt$ Hz
Spectral Noise (10 kHz)	1.40 $\mu$ V/ $\sqrt$ Hz

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