

## CV9-CL

### 9 Channel Charge Amplifier



The CV9-CL is a 9 channel low gain charge 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 x0.1, x1 or X10 gain individually selectable for each channel, making it extremely flexible when used with mixed accelerometer outputs.

With a low noise floor the CV9-CL is a great all round low cost per channel solution

Gain	Bandwidth
x 0.1	500kHz
x 1	500kHz
x 10	100kHz

#### Features

- Short Circuit/open circuit warning Indicator.
- Switchable Gain of x0.1, x1 and x10 for Charge inputs, individual channel selectable.
- Front panel BNC input/output connectors.
- 19" Rack Mountable Enclosure

#### Front Connections



#### Rear Connections



Specification	Metric	Imperial
<b>Performance</b>		
Indicators	Short circuit/open circuit Warning LED	
Input Gain per channel	X0.1, x1 and x10	
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	IEC 320	
Input	105 – 240 VAC	
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

<b>Electrical Performance</b>	
<b>Broadband Electrical Noise (1 to 10,000Hz) (Gain x0.1)</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 x1)</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 x10)</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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DJB Iss.5.2020



ISO 9001 – 00025363