

CV9-C

9 Channel Charge Amplifier



The CV9-C is a 9 channel 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 x1, x10 or X100 gain individually selectable for each channel, making it extremely flexible when used with mixed accelerometer outputs.

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

Front Connections



Rear Connections



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

Features

- Switchable Gain of x1, x10 and x100 for Charge inputs, individual channel selectable.
- Front panel BNC input/output connectors.
- 19" Rack Mountable Enclosure

Specification	Metric	Imperial
Performance		
Input Gain per channel	x1, x10 and x100	
Channels	9	
Max Output per channel	±10VAC	
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 μ V rms
Spectral Noise (1 Hz)	1.34 μ V/ \sqrt Hz
Spectral Noise (10 Hz)	0.20 μ V/ \sqrt Hz
Spectral Noise (100 Hz)	0.12 μ V/ \sqrt Hz
Spectral Noise (1 kHz)	0.12 μ V/ \sqrt Hz
Spectral Noise (10 kHz)	0.10 μ V/ \sqrt Hz
Broadband Electrical Noise (1 to 10,000Hz) (Gain x10)	21 μ V rms
Spectral Noise (1 Hz)	5.10 μ V/ \sqrt Hz
Spectral Noise (10 Hz)	0.60 μ V/ \sqrt Hz
Spectral Noise (100 Hz)	0.22 μ V/ \sqrt Hz
Spectral Noise (1 kHz)	0.22 μ V/ \sqrt Hz
Spectral Noise (10 kHz)	0.19 μ V/ \sqrt Hz
Broadband Electrical Noise (1 to 10,000Hz) (Gain x100)	165 μ V rms
Spectral Noise (1 Hz)	57 μ V/ \sqrt Hz
Spectral Noise (10 Hz)	5.20 μ V/ \sqrt Hz
Spectral Noise (100 Hz)	1.70 μ V/ \sqrt Hz
Spectral Noise (1 kHz)	1.80 μ V/ \sqrt Hz
Spectral Noise (10 kHz)	1.40 μ V/ \sqrt Hz