

The CV9 Rack Mounted Charge Amplifier

Options: CV9-C, CV9-CL, CV9DC-C



The CV9-C rack mounted unit is the perfect partner for use in industrial or laboratory applications where signal conditioning and/or charge amplification is required. Available in three versions, the CV9-C offers maximum flexibility and return on investment. The unit uses standard rack dimensions in a compact 1U high 19" rack mountable chassis with an elegant brushed metal front, with front mounted BNC input and output sockets it offers quick and versatile set up.

Charge Amplifier Racks

CV9-C: A 9 channel charge amplifier with individually selectable gain (x1, x10, x100) per channel via a three way switch.

CV9-CL: A 9 channel charge amplifier with individually selectable gain (x0.1, x1, x10) per channel via a three-way switch.

CV9DC-C: A DC powered 9 channel charge amplifier with individually selectable gain (x1, x10, x100) per channel via a three-way switch.

Front Connections



Rear Connections



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

Charge Amplifier Options

- CV9-C
- CV9-CL
- CV9DC-C

Please see separate data sheet for IEPE & Combined options

Features

- Short Circuit/open circuit warning Indicator.
- 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		
Indicators	Short Circuit/open circuit Warning LED	
Input Gain per channel (switchable by front panel switches)	CV9-C x1, x10 and x100 CV9-CL x0.1, x1 and x10	
Channels	9	
Connections		
Connectors	9 BNC Input Connectors 9 BNC Output Connectors	
Environmental		
Operating Temp.	0 to +45°C	32 to 113°F
Power		
Input Connector	IEC 320	
Input	AC DC	105 – 240 V AC 9 - 30 V DC
Status	LED Power Indicator on Front Panel	
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/ $\sqrt{\text{Hz}}$
Spectral Noise (10 Hz)	0.20 μ V/ $\sqrt{\text{Hz}}$
Spectral Noise (100 Hz)	0.12 μ V/ $\sqrt{\text{Hz}}$
Spectral Noise (1 kHz)	0.12 μ V/ $\sqrt{\text{Hz}}$
Spectral Noise (10 kHz)	0.10 μ V/ $\sqrt{\text{Hz}}$
Broadband Electrical Noise (1 to 10,000Hz) (Gain x10)	21 μ V rms
Spectral Noise (1 Hz)	5.10 μ V/ $\sqrt{\text{Hz}}$
Spectral Noise (10 Hz)	0.60 μ V/ $\sqrt{\text{Hz}}$
Spectral Noise (100 Hz)	0.22 μ V/ $\sqrt{\text{Hz}}$
Spectral Noise (1 kHz)	0.22 μ V/ $\sqrt{\text{Hz}}$
Spectral Noise (10 kHz)	0.19 μ V/ $\sqrt{\text{Hz}}$
Broadband Electrical Noise (1 to 10,000Hz) (Gain x100)	165 μ V rms
Spectral Noise (1 Hz)	57 μ V/ $\sqrt{\text{Hz}}$
Spectral Noise (10 Hz)	5.20 μ V/ $\sqrt{\text{Hz}}$
Spectral Noise (100 Hz)	1.70 μ V/ $\sqrt{\text{Hz}}$
Spectral Noise (1 kHz)	1.80 μ V/ $\sqrt{\text{Hz}}$
Spectral Noise (10 kHz)	1.40 μ V/ $\sqrt{\text{Hz}}$

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