

# Source Amplifiers

All dimensions given in mm (L x W x H) not including the connector

## Charge



### CA/04/N, CA/04/NL, CA/04/NH, CA/04/EH

**Frequency**  
Extended Low Frequency Response

**Output**  
Normalised O/P 3.16V/g (max) DC O/P

**Input range**  
1/110pC/g (CA/04/N)  
0.1/11pC/g (CA/04/NL)  
10/1100pC/g (CA/04/NH)  
100/11000pC/g (CA/04/EH)

**Bandwidth**  
0.1/100kHz

**Warning indicators**  
Overload LED



### CA/04/V (Velocity)

**Frequency**  
n/a

**Output**  
O/Ps 100mV/g & 1V/mm/sec. (max)

**Input range**  
1/110pC/g

**Bandwidth**  
0.7/100kHz

**Warning indicators**  
n/a



### CA/04/D (Differential)

**Frequency**  
n/a

**Output**  
n/a

**Input range**  
1/110pC/g (CA/04/D)  
10/1100pC/g (CA/04/DH)

**Bandwidth**  
0.7/100kHz

**Warning indicators**  
n/a

## Charge & Voltage



### DIN Rail Mounted Charge or Voltage Source Amplifier CV1-C, CV1-V

**Output**  
Fixed gain selectable on request

**Output Connector**  
Terminal Block

**Input Connector**  
SMC

**Warning indicators**  
Power on

**Please note:**  
Other options including filters are available on our website.



### 9 Channel Charge or Voltage or Combined Source Amplifier CV9-C/CV9-V/CV9-CV

**Input connectors**  
9 x BNC

**Output connectors**  
9 x BNC

**Sensor Excitation**  
(V & CV only) +24VDC,  
2-14mA user selectable

**Gain**  
x1, x10, x100  
selectable per channel

**Bandwidth**  
0.5/500kHz Max.

**Warning indicators**  
Open/short circuit

## Voltage



### VV/04

**Output**  
Normalised O/P  
31.6V/g (max)  
DC O/P

**Input range**  
1/110mV/g

**Bandwidth**  
3dB Bandwidth  
0.4Hz/100kHz

**Warning indicators**  
Transducer O/C and  
S/C Fault detection



### 3 Channel Voltage Source Amplifier V3/04

**Output** AC & DC O/P

**Gain factor**  
x 1, 3.16, 10, 31.6  
and 100

**Output Connector**  
n/a

**Input Connector**  
n/a

**Warning indicators**  
Transducer O/C and  
S/C Fault detection  
O/L Indicator



### 4 Channel Voltage Source Amplifier V4/04

**Output** AC & DC O/P

**Gain factor**  
x 1, 3.16, 10, 31.6  
and 100

**Output Connector**  
n/a

**Input Connector**  
n/a

**Warning indicators**  
Transducer O/C and  
S/C Fault detection  
O/L Indicator



### Battery IEPE Voltage Supply VB/01

**Output**  
Unity Gain

**Output Connector**  
BNC

**Input Connector**  
BNC

**Warning indicators**  
Transducer O/C and  
S/C detection  
Power on

## Level Alarm



### Level Alarm LA/04

**Features**  
High level alarm indicator  
Alarm timer eliminates  
spurious triggering,  
Programmable alarm  
Setpoint and timer,  
Latching non-latching  
alarm mode

**Input**

# Inline Converters

All dimensions given in mm (L x W x H) not including the connector



## Hybrid Charge Amplifier CA/100/F

**Voltage**  
+10/+30

**Connector**  
I/P 5P  
O/P 10-32 UNF  
Microdot

**Gain**  
1mV/pC to 1V/pC



## Hybrid Two Wire Voltage Source Line Driver QV/01

**Voltage**  
Miniature 2 Wire Charge/  
Voltage Converter

**Connector**  
I/P 10-32 UNF Microdot  
O/P 10-32 UNF  
Microdot

**Gain**  
1mV/pC to 1V/pC



## Hybrid Two Wire Voltage Source Line Driver QV/02

**Voltage**  
Miniature 2 Wire Charge/  
Voltage Converter

**Connector**  
I/P 10-32 UNF Microdot  
O/P BNC

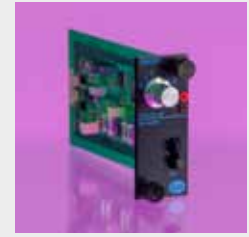
**Gain**  
1 and 10mV/pC



## Acceleration/ Velocity Converter VM/04

**Voltage**  
Single Integrator/ High  
Pass Filter Converts  
Vibration Data from  
Acceleration to Velocity  
Format

**Output**  
Configurable for  
optimum signal/ noise  
down to min. 2Hz



## Acceleration/ Displacement Converter DM/04

**Voltage**  
Double Integrator/  
High Pass Filter  
Converts Vibration Data  
from Acceleration to  
Displacement Format

**Output**  
Configurable for  
optimum signal/noise  
down to min. 2Hz

# Filters



## Bandpass Filter BP/04/N BP/04/W

**Frequencies**  
Fixed Frequency  
Bandpass Filters  
1Hz/15kHz Tuning Rate

**High Pass**  
Customer Selectable

**Low Pass**  
Customer Selectable



## DIN Rail Mounted Filter Module CV1-F CV1-VF

**Frequencies**  
Fixed Frequency factory  
set to customer spec.  
Variable Frequency set  
by DIP switch, 255 steps

**High Pass**  
Range of High pass  
filters available

**Low Pass**  
Range of Low pass filters  
available

# LHP Filter

## Modular Switchable Low/High Pass Filter

Available as a single channel DC powered unit or up to 9 channels in a AC/DC powered chassis. Utilising simple BNC input and output connectors on the front panel, with user selectable AC/DC coupling and IEPE signal source (4mA/20VDC).

**For more details visit our website.**

### Features:

- Input Overload Indicator
- Frequencies: Full range of filter responses available, Butterworth, Bessel, anti-alias & general purpose
- Switchable High/Low Pass
- Single ended/differential input
- Modular System
- 6 Gain steps to x50



# Portable and Rack Based Housings



DJB's range of modular instrumentation can be supplied in portable and rack base housings suited for use with any of the 04 range of instrumentation modules seen on pages 15/16/17.

**PC/04** - Portable housings with up to 12 single width slots are available with user selectable input and output connectors, usually microdot or BNC. Housings also include power supply, module interconnections for a wide range of module combinations. Power options include standard AC power in addition to DC 12/28VDC.

**SR/04** - Rack based solutions are available with 200/240VAC, 90/130VAC 50/60Hz mains input,  $\pm 15V$ , 1.5A max. O/P regulated power supply.

For input/output connector options contact our sales team [sales@djbinstruments.com](mailto:sales@djbinstruments.com)

## 9 Channel Charge, Voltage or Combined Source Amplifier



As an alternative to the modular solution, DJB also offer a range of 9 Channel rack based Amplifiers, the CV9 range is available in three versions, all offering simple front panel BNC input and output connectors and all available as AC or DC powered racks.

**CV9-C** is a fixed 9 channel charge amplifier with individually selectable gain on each channel via a three way switch x1, x10, x100 gain.

**CV9-V** is a fixed 9 channel IEPE supply with individually selectable gain on each channel via a three way switch x1, X10, x100 gain, also featuring an indicator lamp for open/correct circuit connection per channel.

**CV9-CV** is a fixed 9 channel Charge/IEPE supply amplifier with all the features of the other models in addition to individually selectable charge/IEPE per channel.

### Features

- Short Circuit/open circuit warning indicator
- IEPE Constant Current Source, user selectable via internal jumpers
- Switchable Gain of x1, x10 and x100 for charge and voltage inputs, individual channel selectable
- Front Panel BNC input/output connectors
- 19" Rack Mountable Enclosure

### Power

Input Connector IEC 320

Input 105-240 VAC (switchable)

Status LED Power Indicator on Front Panel

### Physical

Weight 2.75kg

Size H 44.5mm, W 482.6mm, D 348mm