

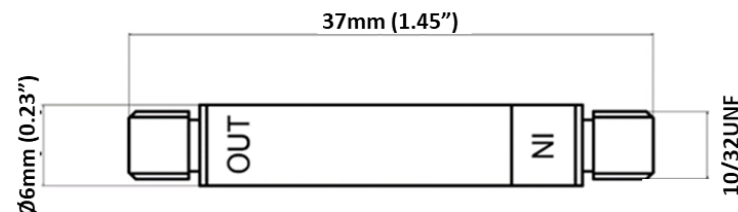
- Inline Charge to Voltage Converter
- 1mV/pC
- Gain x1
- Mass – 3grams
- 10-32UNF connectors
- Miniature
- Compact design

The C2V-1 is an inline charge converter with a conversion of 1mV per pC this is a gain of 1. This allows the use of a piezoelectric charge output accelerometer without the need of a charge amplifier. The C2V-1 uses the IEPE signal conditioning from the DAQ or vibration control system hardware to power the charge to voltage conversion.

Kemo can also supply a range of cable solutions to use with the C2V-1

Other options also include: C2V-0.1 (0.1mV/pC) and C2V-10 (10mV/pC)

| Specification | Metric | Imperial |
|-----------------------------|---------------------------------------|---------------|
| Sensitivity | 1mV/pC | 1mV/pC |
| Input Range | ±4,000pC | ±4,000pC |
| Frequency Range ±1dB | 0.5 to 20000 Hz | |
| Overload limit | ±8V | |
| Non-Linearity | ≤1 % | |
| Electrical Noise | 0.1mV rms | |
| Overload Limit (Shock) | ±49000(m/s²) pk | ±5000gpk |
| Operating Temp. Range | -55 to +125°C | -67 to +257°F |
| Output voltage | ±5VAC | |
| Compliance Voltage (Supply) | +18 to +28 VDC | |
| Current range | 2 – 10mA | |
| Output Bias Voltage | 11VDC ± 1.5VDC | |
| Output Impedance | ≤100Ω | |
| Size (excluding connector) | Ø6mmx37mm | Ø0.23"x1.45" |
| Weight | 3gm | 0.105oz |
| Sensing Element Material | PZT-5 | |
| Case Material | Stainless Steel | |
| Case sealing | Welded | |
| Electrical Connection Type | 10-32UNF Microdot / 10-32UNF Microdot | |



Kemo has a range of cable assemblies available for use with the C2V-1

1A2-30 – 3m(10ft) low noise 10/32UNF microdot to BNC plug
 1A2-50 – 5m(15ft) low noise 10/32UNF microdot to BNC plug
 1A1-30 – 3m(10ft) low noise 10/32UNFmdot to 10/32UNFmdot
 1A1-50 – 5m(15ft) low noise 10/32UNFmdot to 10/32UNFmdot

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