C2V-0.1

Inline Charge to Voltage Converter – Gain x0.1

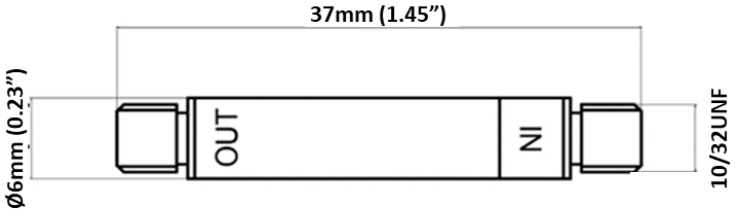
- Inline Charge to Voltage Converter
- 0.1mV/pC
- Gain x0.1
- Mass – 3grams
- 10-32UNF connectors
- Miniature
- Compact design

The C2V-0.1 is an inline charge converter with a conversion of 0.1mV per pC this is a gain of 0.1. This allows the use of a piezoelectric charge output accelerometer without the need of a charge amplifier. The C2V-0.1 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-0.1

Other options also include: C2V-1 (1mV/pC) and C2V-10 (10mV/pC)

Specification	Metric	Imperial
Sensitivity	0.1mV/pC	0.1mV/pC
Input Range	±40,000pC	±40,000pC
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-0.1

1A2-30 – 3m(10ft) low noise 10/32UNF microdot to BNC plug
1A2-50 – 5m(15ft) low noise 10/32/UNF 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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Iss.1 – November 2022