

DCM-03 MEMS VC 3 channel Signal Conditioning



The DCM-03 MEMS DC signal conditioner is for use with DJB's range of AM, AMB and AMT variable capacitance MEMS accelerometers. The unit has 3 channels and can be used with three single axis capacitive accelerometers or one triaxial capacitive accelerometer. Offering a wide range of features in a compact and powerful unit the DCM-03 is the perfect addition to your low frequency testing system.

Features :

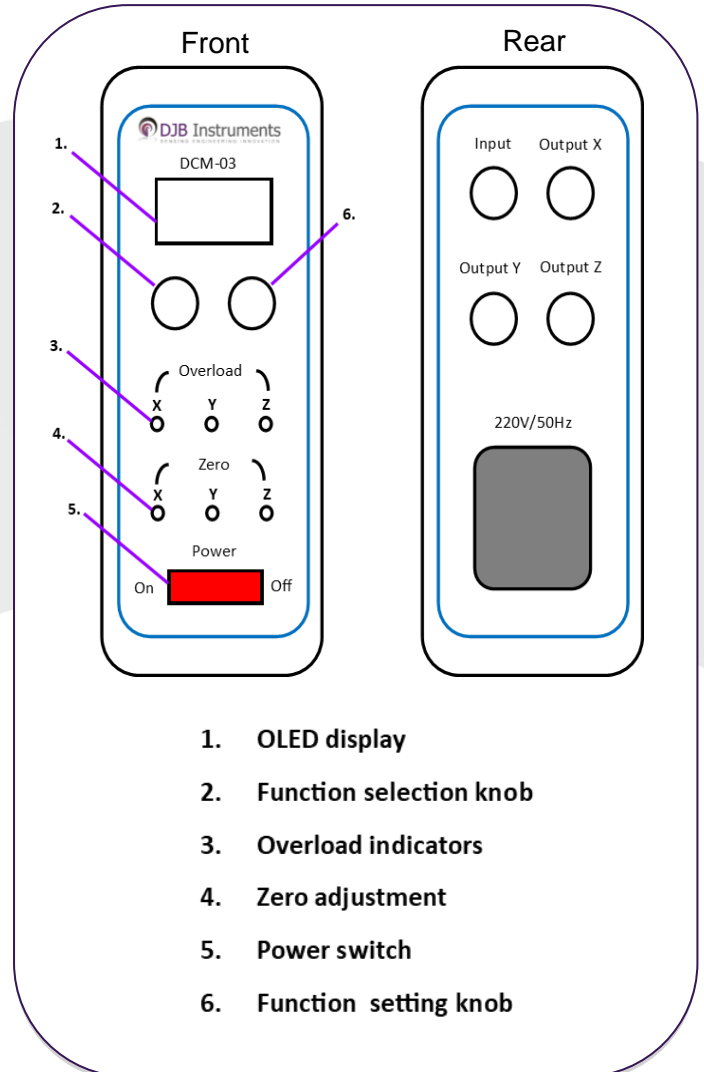
- OLED display
- Mains powered
- Wide frequency band and low noise
- User selectable gains
- Adjustable low pass filter
- Output overload indicator

For use with the following DJB MEMS Products:

- AM/2.1000 Monoaxial, $\pm 2g$, 1000mV/g
- AM/2HR.1000 High Res. monoaxial $\pm 2g$, 1000mV/g
- AM/5.300 Monoaxial, $\pm 5g$, 300mV/g
- AM/10HR.200 High Res. monoaxial $\pm 10g$, 200mV/g
- AM/20.100 Monoaxial, $\pm 20g$, 100mV/g
- AM/50HR.40 High Res. monoaxial $\pm 50g$, 40mV/g
- AMB/2.1000 Biaxial, $\pm 2g$, 1000mV/g
- AMB/2HR.1000 High Res. biaxial $\pm 2g$, 1000mV/g
- AMB/5.300 Biaxial, $\pm 5g$, 300mV/g
- AMB/10HR.200 High Res. biaxial $\pm 10g$, 200mV/g
- AMB/20.100 Bi axis MEMS, $\pm 20g$, 100mV/g
- AMB/50HR.40 High Res. biaxial $\pm 50g$, 40mV/g
- AMT/2.1000 Triaxial, $\pm 2g$, 1000mV/g
- AMT/2HR.1000 High Res. triaxial $\pm 2g$, 1000mV/g
- AMT/5.300 Triaxial, $\pm 5g$, 300mV/g
- AMT/10HR.200 High Res. triaxial $\pm 10g$, 200mV/g
- AMT/20.100 Triaxial, $\pm 20g$, 100mV/g
- AMT/50HR.40 High Res. triaxial $\pm 50g$, 40mV/g



DCM-03 Panel Layout



1. OLED display
2. Function selection knob
3. Overload indicators
4. Zero adjustment
5. Power switch
6. Function setting knob



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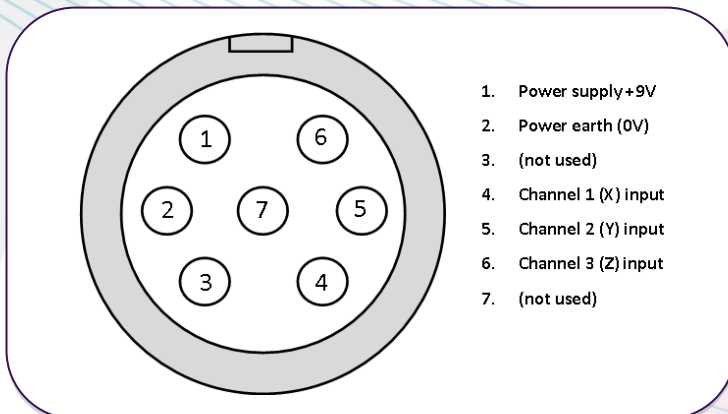
	Metric	Imperial
Frequency Range	DC~30kHz (-3dB±1dB)	
Temperature Range	-10~+50°C	14 to +122°F
Power Supply	220V±10% 50Hz	
Input Range	±10V	
Output voltage	±10V / 5mA (BNC socket)	
Excitation power supply	20mA / +9VDC	
Gain	1, 2, 4, 8, 10 mV/mV	
Low pass filter	100, 300, 1k, 3k, 10kHz, 30kHz, 100kHz damping slope: -12dB±1dB/oct	
Weight	1.2kg	2.64lbs
Input Connector Output Connectors	7 pin connector BNC	
Size	45 x 122 x 204mm.5mm	1.77 x 4.80 x 8.03inches

Number of channels = 3

Accuracy better than 0.5%

Overload indication: when output is larger than 10V+1V the indication will be on

Input connector pin allocation



1. Power supply +9V
2. Power earth (0V)
3. (not used)
4. Channel 1 (X) input
5. Channel 2 (Y) input
6. Channel 3 (Z) input
7. (not used)

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DJB Iss.1

