



## Vibration Controller K2 Specifications

Main Enclosure	
Number of Slots	3 (Expandable by connecting additional slave units)
AC Power	Single-phase AC, 100V-240V (Auto-selected)
Extension	Additional units can be interconnected (Providing support for large-scale systems)
External Communication	Contact I/O (for Emergency stop)
Ambient Conditions	0-40°C, below 85% RH, non-condensing
Dimensions	W430×H100×D340mm (excluding connectors, etc.)
Mass	Approximately 6.0kg
8-channel Input Module (option)	
Number of Channels	8
Input Connector	BNC
Input Signal	Charge, Voltage, IEPE
Charge Amplifier Sensitivity	1.0mV/pC or 10mV/pC
Charge Amplifier Cut-off	0.32Hz
Maximum Input	Charge Input $\pm 10000\text{pC}$ or $\pm 1000\text{pC}$ Voltage Input $\pm 10000\text{mV}$ IEPE Input $\pm 10000\text{mV}$
Sampling Frequency	51.2kHz maximum
Voltage Input Coupling	AC or DC
AC Coupling Cut-off	0.1Hz
CCLD Amplifier (IEPE)	+24VDC, 3.5mA
TEDS (IEPE)	Version 0.9, Version 1.0
A/D Converter	Type : $\Delta\Sigma$ Resolution : 24-bit Dynamic range : 117dB Digital filter : Pass-band ripple $\pm 0.001\text{dB}$ : Stop-band attenuation 110dB



4-Channel Input and 4-Channel Output Module (standard)	
●Input Section	
Number of Channels	4
Input Connector	BNC
Input Signal	Charge, Voltage, IEPE
Charge Amplifier Sensitivity	1.0mV/pC or 10mV/pC
Charge Amplifier Cut-off	0.32Hz
Maximum Input	Charge Input $\pm 10000\text{pC}$ or $\pm 1000\text{pC}$ Voltage Input $\pm 10000\text{mV}$ IEPE Input $\pm 10000\text{mV}$
Sampling Frequency	51.2kHz maximum
Voltage Input Coupling	AC or DC
AC Coupling Cut-off	0.1Hz
CCLD Amplifier (IEPE)	+24VDC, 3.5mA
TEDS (IEPE)	Version 0.9, Version 1.0
A/D Converter	Type : $\Delta\Sigma$ Resolution : 24-bit Dynamic range : 117dB Digital filter : Pass-band ripple $\pm 0.001\text{dB}$ : Stop-band attenuation 110dB
●Output Section	
Number of Channels	4 (One channel is reserved for drive output)
Output Connector	BNC
Output Signal	Voltage
Maximum Output	$\pm 10000\text{mV}$
Sampling Frequency	51.2kHz maximum
D/A Converter	Type : $\Delta\Sigma$ Resolution : 24-bit Dynamic range : 120dB Digital filter : Pass-band ripple $\pm 0.005\text{dB}$ : Stop-band attenuation 75dB

#### Minimum Specifications for PC

- One built-in PCI Express x1 slots
- Microsoft Windows 10 Pro ( 64bit ), Windows 10 IoT Enterprise ( 64bit ) or Windows 7 Professional SP1 ( 32bit/64bit ) is required\*.
- Memory required ( for 8 input channels )  
Windows 7 ( 32 bit ) : 2 GB or more  
Windows 7/10 ( 64 bit ) : 4 GB or more
- DVD-ROM Drive ( required for installation )
- One USB port
- PC and monitor resolution should be 1280 x 1024 or more

\* Recommended OS and memory vary depending on software, options , number of I/O channels, etc.

\* When the optional software is added to the Eco Shaker, system requirements for the PC will change.