Vibration Control System DCS-98000MJ

DCS-98000MJ provides extensive software along with its hardware, which is most suitable for the vibration control of an electrodynamic vibration testing system. The vibration controller executes the vibration test profile that the customer requires and is designed to be able to easily perform a complicated vibration test. It carries DCU performing high-speed digital signal processing and is comprised of the industrial use PC main body of high reliability, the controller is equipped with the latest Microsoft Windows OS which it is easy to operate, and the control software standardized on the random, sine and shock and provide rich option software.

Typical Software Package Specifications

	Random vibration control package	
Model	ESP-121ME (English) / ESP-121MJ (Japanese)	
Major Specifications	■Control method:	PSD profile
	■Frequency range:	Max. 5000 Hz
	■Frequency resolution:	Max. 3200 line
	■Control dynamic range:	144 dB (Theoretical value)
	■Loop time:	Less than 200 ms @ 400 line and 2000 Hz
	■Max. input number:	16 ch
	■Random setup profile:	Breakpoint (Hz), power spectral density (PSD), slope
	■Max. test time:	9999 hours 59 minutes 59 seconds
	■Data I/O function:	Text format output (CSV), Microsoft Excel form (xlsx)

	Sine vibration control package	
Model	ESP-221ME (English) / ESP-221MJ (Japanese)	
Major Specifications	■Control method:	Maximum acceleration level Minimum acceleration level Average acceleration level
	■Frequency range:	0.1 to 10000 Hz
	■Preset parameter:	Frequency, Acceleration, Velocity, Displacement.
	■Frequency control:	Sweep mode (LIN or LOG mode), Fixed mode, Manual setting mode.
	■Time and cycle:	Duration (Max. 999 h 59 m 59 s) Cycle (Max. 10^{10} cycles)
	■Control system:	Max. 2 systems
	■Input channel:	Max. 16 ch
	■Monitor parameter:	Acceleration, Vibration level, Frequency, Output voltage.
	■Graphic function:	Preset acceleration, Input response, Output response.
	■Analysis feature:	Transfer function, Response spectrum.

	User-defined waveform long period equalization	
Model	ESP-421ME (English) / ESP-421MJ (Japanese)	
Major Specifications	■Control method:	Equalizing transfer function
	■Frequency range:	Max. 1000 Hz
	■Freq. resolution:	Max. 1600 line
	■Permissible data:	Max. 4096000 (app. 4.5 h/app. 100 sample)
	■Monitor function:	Target waveform, Control waveform, Output waveform.
	■Graphic function:	Spectrum, Transfer function.

	Shock control package	
Model	ESP-321ME (English) / ESP-321MJ (Japanese)	
Major Specifications	■Control method:	Classical shock pulse (Half sine, sawtooth, trapezoidal), Arbitrary shock waveform, Output level and spectrum.
	■Pulse duration:	0.5 to 150 ms
	■Freq. resolution:	Max. 25600 line
	■Preset parameter:	Shock waveform. Pulse duration.

Software Package Option	Model
Random-on-Random (ROR) Software (10 band)	ESP-122ME (English) / ESP-122MJ (Japanese)
Sine-on-Random (SOR) Software (28 tone)	ESP-123ME (English) / ESP-123MJ (Japanese)
Limit Channels Control (Random)	ESP-124ME (English) / ESP-124MJ (Japanese)
PSD Conversion	ESP-125ME (English) / ESP-125MJ (Japanese)
Resonant Search and Dwell Control	ESP-222ME (English) / ESP-222MJ (Japanese)
Sound Skip Check	ESP-223ME (English) / ESP-223MJ (Japanese)
Limit Channels Control (Sine)	ESP-224ME (English) / ESP-224MJ (Japanese)
Swept Triangular Control	ESP-225ME (English) / ESP-225MJ (Japanese)
Shock Response Spectrum (SRS)	ESP-322ME (English) / ESP-322MJ (Japanese)
Sine Beat Control	ESP-323ME (English) / ESP-323MJ (Japanese)
CERT Program Software	ESP-621ME (English) / ESP-621MJ (Japanese)
LAN Remote Monitor Package	ESP-821ME (English) / ESP-821MJ (Japanese)
e-mail Control Package (ESP-821ME(English) / ESP-821MJ(Japanese) required)	ESP-822ME (English) / ESP-822MJ (Japanese)
Watch Dog Timer Control Package	ESP-823ME (English) / ESP-823MJ (Japanese)

※ As for the detailed information of Software Package, please contact us.

Model	Language	Input
DCS-98104ME(E)-W10	English	4ch
DCS-98104MJ(E)-W10	Japanese	4ch
DCS-98104ME(ES)-W10	English	4ch
DCS-98104MJ(ES)-W10	Japanese	4ch
DCS-98108ME(E)-W10	English	8ch
DCS-98108MJ(E)-W10	Japanese	8ch
DCS-98112ME(E)-W10	English	12ch
DCS-98112MJ(E)-W10	Japanese	12ch
DCS-98116ME(E)-W10	English	16ch
DCS-98116MJ(E)-W10	Japanese	16ch