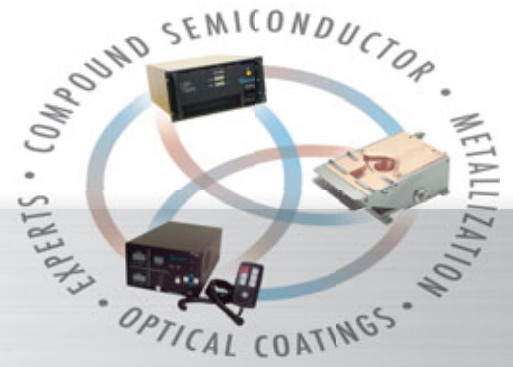


Temescal



TEMESCAL MODEL SUPERSWEEP64 DIGITAL E-BEAM SWEEPER

The Temescal SuperSweep64 beam sweep controller offers fully digital operation, internal storage for up to 64 user-defined sweep patterns, and compatibility with almost any commercially available e-beam gun. Digital programmability means that arbitrary sweep patterns can be designed to address, dwell at, or avoid any of 1024 discrete points. With its Windows™ based programming software and hand-held controller, the SS64 offers the precision and flexibility required in the most demanding e-beam PVD processes.



FEATURES & BENEFITS

- Operates with virtually any e-beam gun
- Proprietary Windows-based software enables user to design custom waveforms or modify existing sweep patterns
- Windows interface also allows waveform simulation on a PC and control/monitoring of the SS64 by a PC
- Hand-held remote controller enables user to design waveforms while watching the actual beam sweep
- Five available waveforms: sine, saw-tooth, triangular, lipped, and arbitrary
- Sweep patterns address 1024 discrete points
- Patterns can be designed to dwell at or avoid specific points
- Sweeper's memory stores up to 64 patterns; an unlimited number can be stored on computer media
- Built-in noise suppression protects unit from transients generated by process arcing
- Improved shielding provides enhanced protection against EMI and RMI
- User-adjustable lateral and longitudinal position limits

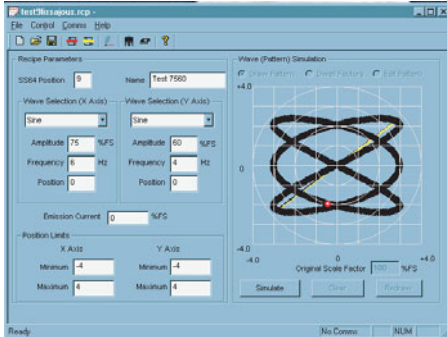
CE

FerroTec

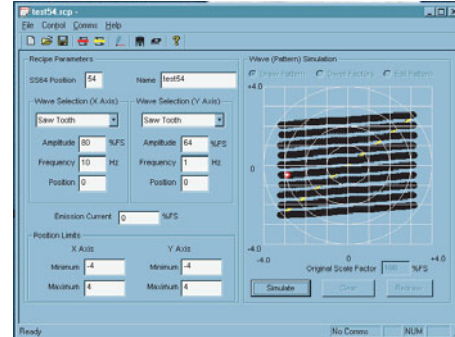
TEMESCAL MODEL SUPERSWEEP64 DIGITAL E-BEAM SWEEPER

WINDOWS-BASED WAVEFORM SIMULATION

The SS64 provides proprietary Windows-based software for waveform design and modification. This software enables the user to simulate any waveform on a PC, as shown below.



Waveform Design Screen with Lissajous Pattern



Waveform Design Screen with Raster Pattern

SPECIFICATIONS

Max. sweep current	-4 A to +4 A
Frequency range	1 to 200 Hz
Waveform resolution	8 bits. (0.4%)
Waveform types	Sine, triangle, saw-tooth, clipped, and arbitrary
Addressable points	1024
Internal waveform storage	Up to 64 patterns
Dimensions	8.5" W x 5.25" H x 14" D
Weight	10 lbs.

Power requirements	100–240 VAC, 50/60 Hz
Computer I/O ports	RS-232 and RS-485
Remote Inputs	Remote sweep enable Contact closure or 24 VDC Remote modify enable Contact closure or 24 VDC
Remote Outputs	Emission current ctl. output 0 to 10 VDC Coil current monitor output 0 to 10 VDC per coil
Long./lateral position limits	Contact closure

ORDERING INFORMATION

DESCRIPTION	PART NUMBER
SS64 Programmable beam sweeper	0611-8570-0
Universal Rack Mounting Kit	0611-8600-0

Temescal — www.Temescal.net

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