

# SSCAL SpikeSafe Calibrator

- Simple, easy to use, intuitive
- Ensure accurate measurements
- Traceability allows correlation
- Two modes:  
    Check calibration  
    Calibrate
- Rapid calibration (< 3 minutes)
- One calibrator – multiple SpikeSafes



*SSCAL Calibrator System integrates easy to use software application, precision voltmeter and calibration electronics*

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## Remove Uncertainty

Vektrex SSCAL calibrator system simplifies calibration of SpikeSafe modules ensuring functionality and current accuracy. An easy to use software application makes available two modes: Check Calibration and Calibrate. Check Calibration checks the accuracy of a SpikeSafe module comparing readings to a known traceable standard and verifying that each source channel performs over its entire current range. Expected and actual values are graphically displayed for visual verification. Calibration mode removes calibration inaccuracies that can build up over time assuring the SpikeSafe is ready to support present and future testing. Calibration factors are downloaded restoring the SpikeSafe module to its original factory specifications.

## Simple Connection, Calibrate in Place

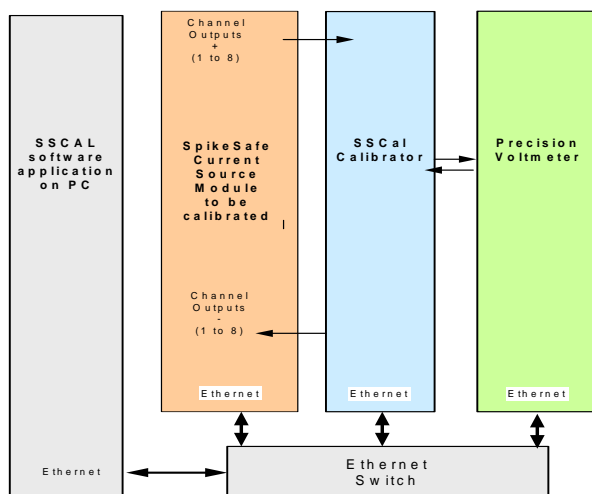
SSCAL supports calibration in-situ or off-site. For in-situ use, only one cable is necessary connecting the SpikeSafe module to the SSCAL. To use, confirm Ethernet connection with the calibration software application and start the calibration application. The calibration begins execution and completes within minutes. There is no need to move the SS200 module.

## Eliminates Downtime, Shipping Costs

By calibrating SS200 modules in place, shipping costs are eliminated along with system downtime. Calibration may be performed during scheduled factory maintenance times when SpikeSafe modules are not being used for critical tasks.

## Easy To Use SSCAL Software

The intuitive SSCAL application is very easy to use. It installs quickly on the existing system computer or an external calibration computer. The software application automatically sweeps each SpikeSafe channel comparing the actual current with the programmed/expected value. If Calibrate mode is active, calibration factors are calculated and downloaded into SpikeSafe flash memory. Calibration results are displayed in a graphic form allowing visual verification.

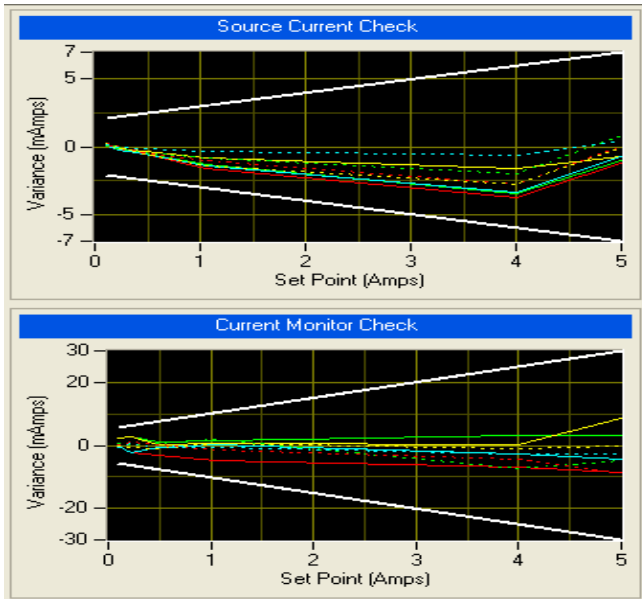


*SpikeSafe Calibrator Block Diagram*

For more information see [www.vektrex.com](http://www.vektrex.com)

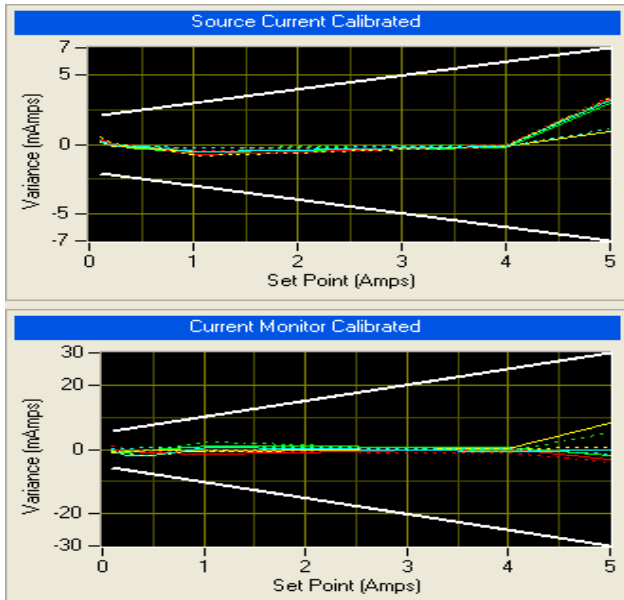
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## Check Calibration Mode



Shown above is the Check Calibration view. Check Calibration quickly checks the accuracy of each SpikeSafe channel comparing reading to a known traceable standard. Both source current and monitor output are checked. Expected and actual results are graphically displayed for visual verification.

## Calibration Mode



Shown above is the Calibration view. Calibration mode removes inaccuracies. During calibration mode, the SSCAL software application sweeps each channel comparing the actual current with the programmed/expected value. Calibration factors are calculated and downloaded into SpikeSafe flash memory ensuring SpikeSafe accuracy.

## Specifications

General	
Models Supported:	SS100 SS200-500mA, -5A, -10A SS200 - Common Anode SS200FP – Fast Pulse SS200HC – High Current
Supplied Cables:	Current output cable (3 meter) Ethernet Load/Measurement
Current Measurement Accuracy:	0.1%
Input Power:	90-240VAC 50-60 Hz, 28W for Measurement System, 50W for Air-cooled Load
Input Power Connector:	Universal Input Socket
Physical	
Air-Cooled Load & Measurement System:	2U, half width table top units
Software	
Modes:	Check Calibration, Calibrate and Set Factors
Calibration Time:	Under 2 minutes for 8 channels
Requirements:	Windows XP with .NET framework. Installer and CD
Other	
Warranty:	1 year
Recommended Calibration Interval:	1 year

## Ordering Information

Part Number	Description
SSCAL-CC	SpikeSafe Calibration System includes Measurement System, Load, Cables, and SSCAL Software  CC indicates country code.
Services	
SSCAL-CERT	Calibration Certificate
SSCAL-SRVC	Calibration service