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Find the *Labsphere SC-5500* at our website: ***Click HERE***

SC-5500 SYSTEM CONTROL RADIOMETER

A comprehensive, flexible, and out-of-the-box system control radiometer



FLEXIBLE DESIGN

The SC-5500 is both a highly flexible, programmable radiometer/photometer and a system controller. The integrated microprocessor-based controller is the communication hub for Labsphere's peripheral components including power supplies, detector multiplexers, and variable attenuator. With a variety of interchangeable detector assemblies, integrating spheres and components, light sources, and power supplies, you are able to create, upgrade, or expand a calibration system in minutes.

OUT-OF-THE-BOX SOPHISTICATION

The SC-5500 operates out-of-the-box. That doesn't mean you sacrifice a sophisticated feature set. A 64 digit backlit LCD display allows you to view measurement results, select calibration factors, and set display features and remote communication parameters.

Operation features include up to 100 programmed optical radiation calibrations, manual and auto ranging, digital or analog display, digital filtering, 3 ½ or 4 ½ digit display, display zero, and display normalization display.

COMPREHENSIVE

Labsphere's SC-5500 System Control radiometer monitors photo detector signals that are integrated with light calibration systems. The system controller can be used as a photometer (for photometric applications) or a radiometer (for radiometric applications). Labsphere will calibrate the SC-5500 to monitor luminous and radiant flux, luminance, radiance, intensity, illuminance and irradiance, making it an integral component of any calibration system.

Use the SC-5500 across a range of applications such as a uniquely designed imaging calibration instrument or a lamp measurement photometer, or a laser power measurement system.



FEATURES:

Compatibility with Si, Ge, InGaAs, and many other photovoltaic detectors

Dynamic Range of 7 Decades of Sensitivity

Stores up to 100 Photometric and Radiometric Calibration Constants

32 Output Lines for Computer Control of System Peripherals

IEEE-488 and RS232

BEST FOR:

Controlling Calibration Systems

Photometric and Radiometric Monitoring of Camera Calibration Systems

Lamp Measurement

Photometry

Laser Power Measurement

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Specifications

Model Number	Order Number
SC-5500 B, Benchtop System Control Radiometer/Photometer	AS-01636-100
SC-5500 R, Rack-mountable System Control Radiometer/Photometer	AS-01636-200

System Properties and Performance

Current Dynamic Range	7 decades/A; 1pA - 1mA
Current Range Resolution Accuracy (% reading + counts) at 25°	C1 nA 0.1 pA 0.05 + 2 0.1 + 5 10 nA 1 pA 0.05 + 1 0.1 + 2 100 nA 10 pA 0.05 + 1 0.1 + 2 1 µA 100 pA 0.05 + 1 0.1 + 2 10 µA 1 nA 0.05 + 1 0.1 + 2 100 µA 10 nA 0.05 + 1 0.1 + 2 1 mA 100 nA 0.05 + 1 0.1 + 2
Voltage Dynamic Range	5 decade/V; 10mVdc – 50Vdc
Voltage Range Resolution Accuracy (% reading + counts) At 25oC	10 mV 1 µV 0.05 + 2 0.1 + 5 100 mV 10 µ V 0.05 + 1 0.1 + 2 1 V 100 µV 0.05 + 1 0.1 + 2 10 V 1 mV 0.05 + 1 0.1 + 2 50 V 5 mV 0.05 + 1 0.1 + 2
Display Resolution	4 ½ digits
Maximum Reading Rate	3 readings/second
Input	Single Channel
Input Connector	twist-lock- triaxial
Input Bias Current	10 pA maximum
Input Impedance	100 MΩ parallel with 100 pF
Compatible Detectors	Photovoltaic (Si, Ge, INGaAs)
ADC Resolution	20 bits
Nonlinearity	± 1 count
Temperature Coefficient	± (0.02% of reading + 0.5 counts) per °C
Operating Environment	0° to 50°C, 0% to 70% relative humidity at 35°C Linearly derates 3% relative humidity per °C from 35° to 50°C
Calibration	Digital factors are stored in the EPROM
Calibration Factors	2 to 100 coefficients may be stored in the EPROM
Power Requirements	100-120/220-240 VAC; 50/60 Hz, 1/0.5 Amp
Computer Interface	IEEE-488 and RS-232C (Default settings: 8 data bits, 1 stop bit, no parity, 9600 baud)
Weight	14 lbs (4.75kg)
Dimension W x D x H	16.5 x 16 x 5 (41.9 x 40.6 x 12.7 cm)

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