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SC-5500 SYSTEM CONTROL RADIOMETER

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



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

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.



Specifications

Model Number

SC-5500 B, Benchtop System Control Radiometer/Photometer
SC-5500 R, Rack-mountable System Control Radiometer/Photometer

Order Number

AS-01636-100
AS-01636-200

System Properties and Performance

Current Dynamic Range

Current Range Resolution Accuracy (% reading + counts) at 25°

7 decades/A; 1pA - 1mA

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 μ A 100 pA 0.05 + 1 0.1 + 2

10 μ A 1 nA 0.05 + 1 0.1 + 2

100 μ A 10 nA 0.05 + 1 0.1 + 2

1 mA 100 nA 0.05 + 1 0.1 + 2

Voltage Dynamic Range

Voltage Range Resolution Accuracy (% reading + counts) At 25°C

5 decade/V; 10mVdc - 50Vdc

10 mV 1 μ V 0.05 + 2 0.1 + 5

100 mV 10 μ V 0.05 + 1 0.1 + 2

1 V 100 μ V 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

Maximum Reading Rate

Input

Input Connector

Input Bias Current

Input Impedance

Compatible Detectors

ADC Resolution

Nonlinearity

Temperature Coefficient

Operating Environment

4 $\frac{1}{2}$ digits

3 readings/second

Single Channel

twist-lock- triaxial

10 pA maximum

100 M Ω parallel with 100 pF

Photovoltaic (Si, Ge, InGaAs)

20 bits

± 1 count

$\pm (0.02\%$ of reading + 0.5 counts) per °C

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

Calibration Factors

Power Requirements

Computer Interface

Digital factors are stored in the EPROM

2 to 100 coefficients may be stored in the EPROM

100-120/220-240 VAC; 50/60 Hz, 1/0.5 Amp

IEEE-488 and RS-232C

(Default settings: 8 data bits, 1 stop bit, no parity, 9600 baud)

14 lbs (4.75kg)

16.5 x 16 x 5

(41.9 x 40.6 x 12.7 cm)

Weight

Dimension W x D x H



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