



Light Meter (LUX)

840006

Instruction Manual

SPER
SCIENTIFIC LTD.





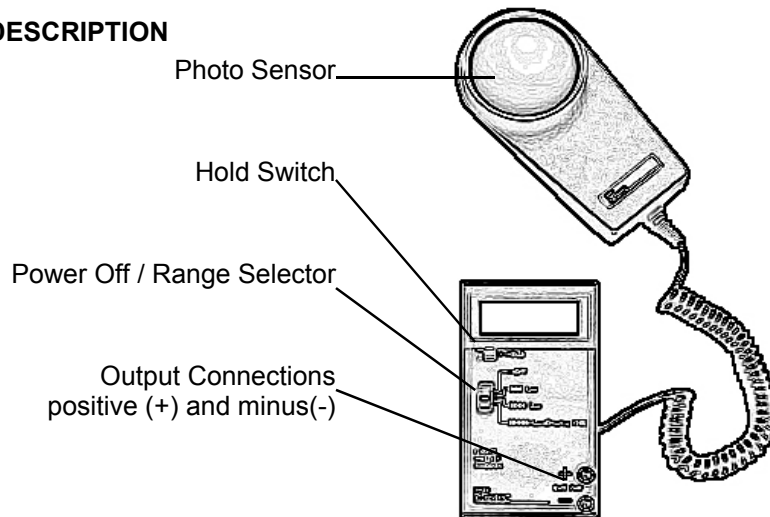
TABLE OF CONTENTS

I. INTRODUCTION..... 2
II. PANEL DESCRIPTION 2
III. MEASUREMENT PROCEDURES..... 3
IV. SPECIFICATIONS..... back cover
VII. WARRANTY..... back cover

I. INTRODUCTION

Compact and portable, your light meter can be used to monitor light levels or check the lux level of a particular light source. Sper Scientific light meters are cosine and color corrected for a quick and accurate response. The selenium cell photo sensor is hermetically sealed to ensure long term stability. Large easily legible 4 digit LCD. Comes with carrying case, photo-sensor cover, instructions and a 9-Volt battery.

II. PANEL DESCRIPTION



MEASUREMENT PROCEDURES

- Power on the instrument using the **OFF/RANGE** selector. If you are uncertain about which range to use, select the highest range (20,000).
- Remove the lens cap from the **PHOTO SENSOR**.
- Range Overload is indicated when "1" appears on the left side of the display. If this occurs, switch to a higher scale or discontinue use.
- Point the **PHOTO SENSOR** toward the source and read the results on the display. In the 20,000 lux range, the reading must be multiplied by 10 for correct results. To convert lux results to foot candles, multiply the meter reading by the factor of .0929

Optional:

- Slide the **HOLD** switch to the right to freeze the reading in the display.
- Use the **OUTPUT CONNECTIONS** to attach a recorder (not available from Sper Scientific).

Notes:

- Keep the lens cap on the **PHOTO SENSOR** at all times except when actually taking a reading.
- Fluctuations in the reading are generally due to shadows or fluctuations in the line voltage. Ambient temperature, drafts and ventilation also affect the luminous flux output.
- Avoid Range Overload.
- Never use the **OUTPUT CONNECTIONS** for input.
- Avoid storage in areas of high temperature and humidity.
- Remove the battery for long term storage.
- When the low battery indicator [B] is displayed, replace the battery with a 9V alkaline battery.

Calibration:

- The light sensitivity of the **PHOTO SENSOR** decreases with each use. Under average conditions, annual calibration is recommended. For complete details and current fees visit www.sperscientific.com, or contact Sper Scientific, 7720 E. Redfield, Suite 7, Scottsdale, AZ 85260, phone (480) 948-4448, email: service@sperscientific.com.

IV. SPECIFICATIONS

Display	3½ digit LCD. Maximum reading 1999
Overload Display	"1" is displayed on the left of the LCD
Power Supply	One 9V battery lasts approx 200 hours
Range	0, 200, 2,000, 20,000 Lux
Accuracy	200 Lux scale, ±4% reading, ±0.5% F.S. 2,000 Lux scale, ±4% reading, ±0.5% F.S. 20,000 Lux scale, ±7% reading, ±1% F.S.
Temperature Characteristics	±0.1% °C (for example: for a 1°C rise or drop in temperature the readout will be affected by ±0.1%)
Repeatability	±2%
Incident Angle Characteristics	30 degrees: ±2% 60 degrees: ±7% 90 degrees: ±25%
Photosensor	Selenium cell, hermetically sealed
Recorder Output	20m V full scale.
Dimensions	Main Unit: 4.75" x 2.5" x 1", 6 oz. Photo Sensor: 5" x 2.5" x 1.5", 3 oz. Photo Sensor Lead: 54"

FIVE YEAR WARRANTY

Sper Scientific warrants this product against defects in materials and workmanship for a period of five years from the date of purchase, and agrees to repair or replace any defective unit without charge. If your model has since been discontinued, an equivalent Sper Scientific product will be substituted if available. This warranty does not cover damage resulting from accident, misuse, or abuse of the product. In order to obtain warranty service, ship the unit postage prepaid to:

SPER SCIENTIFIC LTD.
7720 East Redfield, Suite 7, Scottsdale, Arizona 85260
(480) 948-4448, www.sperscientific.com

Please Note: The defective unit must be accompanied by a description of the problem and your return address. Please be sure to return your warranty registration card within ten (10) days of purchase.

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