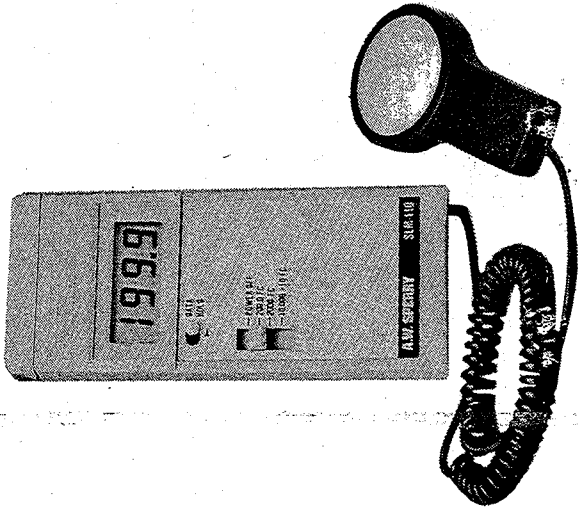


A.W. SPERRY INSTRUMENTS, INC.

DIGITAL LIGHT METER

MODEL SLM-110



The SLM-110 is a digital light meter. This instrument combines 5% basic accuracy with the capability of reading light up to 10,000 footcandle.

1. FEATURES
- Wide lighting range, 0 - 10,000 footcandle.
 - Separate light sensor allows optimum measurements.
 - Compact, lightweight and easy to operate.
 - Large LCD display.
 - Rugged ABS plastic housing.
 - Data Hold

2. SPECIFICATIONS

- Display:** 3 1/2 digit LCD with 13mm (0.5") high numerals, "Lo Bat" annunciator
- Sampling Time:** 0.4 second
- Over-range Indication:** Most significant digit "1" remains.
- Operating Environment:** 0° to 50°C (32° to 122°F) at 80% relative humidity
- Power Supply:** One (1) 9V transistor type battery, NEDA 1604, AWS Part #B-4
- Battery Life:** 150 hours with standard carbon zinc battery typical.
- Dimensions:** 6.4"(L) X 2.7"(W) X 1.1"(H) (180 X 75 X 30 mm)
- Weight:** .54 lb. (24 g) including battery.

ONE YEAR LIMITED WARRANTY

A.W. Sperry Instruments, Inc., warrants that this AWS Instrument has been carefully tested, inspected, and warranted for one (1) year from the date of purchase by the original end user, provided the completed warranty card is returned within ten(10) days after purchase and the instrument has not been misused, damaged, due to negligence, neglect or unauthorized repair, abused or used contrary to the operating instructions. Instruments and proof of purchase in the form of a legible copy or original of the sales receipt clearly identifying the distributor, model number and date of purchase must be returned to A.W. Sperry Instruments Inc., Attention: Customer Service Center, 245 Marcus Boulevard, Hauppauge, New York 11788, postage prepaid for examination and verification of manufacturing defect under warranty. A.W. Sperry Instruments Inc., shall be the sole judge of such defect. The liability of A.W. Sperry Instruments Inc., shall be limited to the repair or replacement at its sole option of any defective product.

THIS WARRANTY AND THE OBLIGATIONS AND LIABILITIES OF SELLER THEREUNDER ARE EXCLUSIVE AND IN LIEU OF AND BUYER HEREBY WAIVES ALL OTHER REMEDIES, EXPRESS WARRANTIES, GUARANTEES OR LIABILITIES, OF AND FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OR WHETHER OR NOT OCCASIONED BY SELLER'S NEGLIGENCE. THIS WARRANTY SHALL NOT BE EXTENDED, ALTERED OR VARIED EXCEPT BY A WRITTEN INSTRUMENT SIGNED BY SELLER AND BUYER. SOME STATES ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIED LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

WARRANTY RETURN

Pleaser to section "Return for Repairs" for complete instructions. All warranty returns must include a legible copy or original of the sales receipt clearly identifying the model number, serial number and date of purchase.

Before returning your instrument for repair be sure to check that the failure to operate properly is not due to the following:

1. Weak battery

If these conditions do not exist and the instrument fails to operate properly, return the instrument and accessories prepaid to:

A.W. Sperry Instruments, Inc.
Customer Service Department

Hauppauge, N.Y. 11788

State in writing what is wrong with the instrument. All warranty repairs must include proof of purchase in the form of a legible or original copy of the sales receipt, clearly identifying the distributor, model number and date of purchase. See warranty statement for full warranty disclosure. Repair estimate will be furnished if requested for out of warranty instruments. Be sure to include all accessories which may be related to the problem, and a note describing the malfunction you observed.

A.W. Sperry Instruments, Inc.

2150 Johnsons Path Suite 302

Hauppauge, N.Y. 11788

Range	Resolution	Accuracy
200.0 fc	.1 fc	5% ± 2d
2,000 fc	1 fc	"
10,000 fc	10 fc	"

Note: Accuracy tested by a standard parallel tungsten lamp of 2854° temperature.

3. PACKAGING

Packed complete with C-57 Carrying Case, one (1) 9V transistor type Battery (NEDA 1604) AWS part # B-4, Form# 200 Operating instructions, and warranty card.

4. LIGHT-MEASURING PROCEDURE

Turn power switch to the on position. Place the sensor in the direction of the light source. You may place the sensor on a tabletop to read the average lighting at a particular work area. Place the range switch on the 200.0 fc position. If the meter overranges switch to the next position 2,000 fc or 10,000 fc to obtain desired reading. A comparative lighting chart of typical recommended levels of illumination is provided on back.

To hold the reading, simply slide the data hold switch to the right.

Note: If the display indicates one or more leading zeros, switch to the next lower scale to improve resolution and accuracy.

5. USEFUL DEFINITIONS

The following are standard definitions for working with radiant energy and light.

Name	Symbol	Definition
Lumen	lm	SI unit of luminous flux
Lumen per square foot	lm/ft ²	A unit of illuminance and also a unit of luminous exitance. Use of the SI unit, lumen per square meter, is preferred.
Lumen per square meter	lm/m ²	SI unit of luminous exitance
Lux	lx	lx = lm/m ² SI unit of illuminance.
Footcandle	fc	fc = lm/ft ² The name lumen per square foot is recommended for this unit. Use of the SI unit of illuminance, the lux (lumen per square meter), is preferred.

The SLM-110 detects various levels of illuminance (brightness) in footcandles. To convert from footcandles to Lux, divide Lux by 10.76.
fc = lx/10.76

6. BATTERY REPLACEMENT

The SLM-110 has a self-contained power supply consisting of one 9V transistor type battery (NEDA 1604, AWS Part# B-4).

- 1) Turn the function switch to the "OFF" position.
- 2) Remove the battery cover.
- 3) Remove the battery from the compartment and unsnap the battery connector.
- 4) Replace the battery with a 9V transistor type battery (NEDA 1604), AWS Part# B-4. For maximum battery life, alkaline cells are recommended.
- 5) Replace the battery cover.

