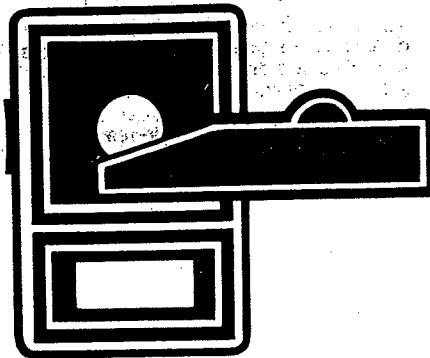


SYLVANIA

DIGITAL LIGHT METER



**MODEL DS-2000
INSTRUCTION MANUAL**

WHAT IT IS

Your Sylvania Digital Light Meter is a precision instrument. It combines the latest optical technology with solid state electronics to bring you outstanding accuracy and convenience in light measurement.

The Sylvania Digital Light Meter is designed for use under all types of illumination. It can be used at low levels of illumination, both indoors and outdoors as well as in those areas where relatively high levels of illumination are found.

Please take a few minutes to read this booklet, written to give you useful information on using and maintaining your Sylvania Digital Light Meter.

WHAT IT DOES

Your Sylvania Digital Light Meter measures the amount of illumination falling on its round white "eye." Its range is 0 to 1999 footcandles. It has the ability to display changes of 1 footcandle.*

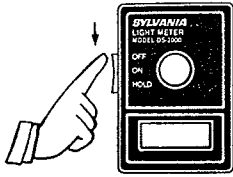
The meter is more sensitive to illumination changes than the human eye.

Readings taken with the Sylvania Digital Light Meter will be accurate to $\pm 5\%$ with an allowance of one digit variation.

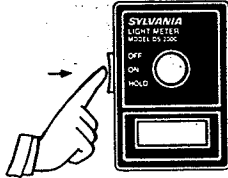
The color sensitivity of the meter's color corrected photoelectric cell has been matched to that of the international standard observer. Thus, the color response of the instrument is that of the human observer, regardless of the light source color.

*To convert footcandles to LUX (metric units) multiply footcandle value by 10.76.

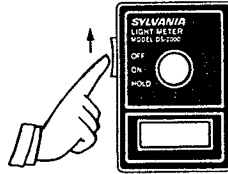
HOW TO USE IT



Turn it ON by pressing the switch downwards.



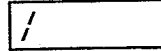
To HOLD a reading, press harder on the switch. When you release, new readings will again start to be taken continuously. Note: Pressing down on the HOLD for more than 2-3 minutes at a time may cause the display to "remember" that reading faintly.



Turn it OFF by pressing the switch upward away from the display window.

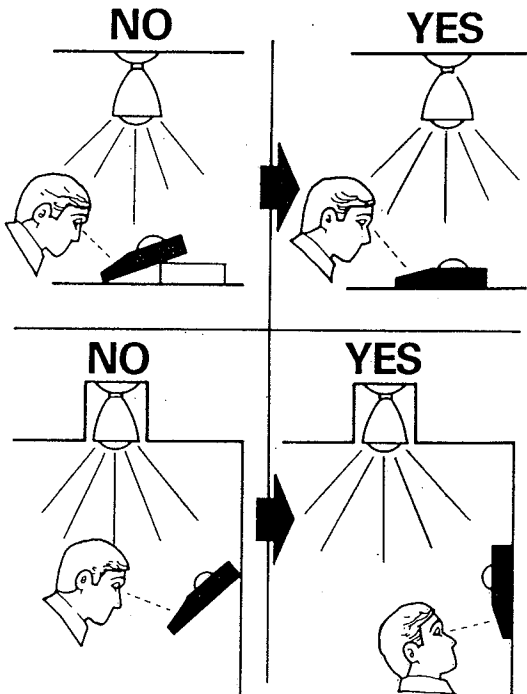
TAKING MEASUREMENTS

Select the location and angle of your measurement. The closer you go to the light source, the higher the illumination reading will be. Illumination above 1999 footcandles is beyond the range of the Sylvania Digital Light Meter and will appear as

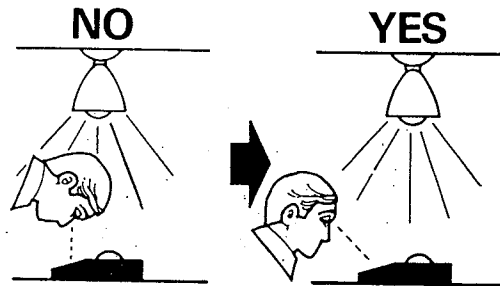


in the display window.

The "cosine law" of illumination means that readings will be highest when the light source is shining straight into the "eye" of the meter, rather than at an oblique angle. To measure illumination on a table, lay the Sylvania Digital Light Meter flat on the table. This reading represents horizontal illumination. To measure illumination on a wall, hold the meter flat against the wall. This reading represents vertical illumination.



Your Sylvania Digital Light Meter responds to all visible light reaching its "eye", whether the source is high or low, near or far away. For best accuracy, don't put yourself between the meter and the light to be measured.

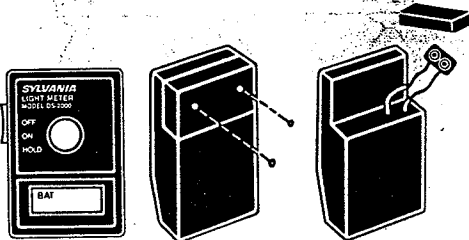


Your Sylvania Digital Light Meter is a very precise, accurate instrument. Accuracy is to $\pm 5\%$ (and \pm one digit) of reading @ 23°C based upon sources traceable to NBS.

BATTERY REPLACEMENT

Your Sylvania Digital Light Meter will operate continuously for hundreds of hours on a fresh 9 volt transistor battery.

Near the end of battery life, the word "BAT" will appear in the upper left corner of the display. Within several operating hours, you should replace with a fresh battery.



Turn meter OFF.

Turn meter over. Loosen 2 battery cover screws.

Lift out old battery. Snap off connector. Replace battery. Replace cover and tighten screws —

MAINTENANCE

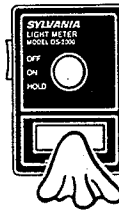
Your Sylvania Digital Light Meter contains no moving parts except its OFF/HOLD switch for years of trouble free service. It has a rugged polycarbonate case for use in demanding, commercial service.

Routine care includes:

AVOID WATER

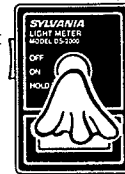


CLEAN WINDOW



Wipe gently with a soft cloth. For stubborn marks, use a moist cloth and mild detergent. NEVER use solvents.

CLEAN DIFFUSER



The "EYE" is a precision molded optical diffuser. Dirt may affect measurement accuracy. Clean with a moist cloth and mild detergent.

WARRANTY

Model DS-2000 Sylvania Light Meter

For a period of one (1) year from the date of purchase manufacturer will repair, replace or grant credit for all parts determined by manufacturer to be defective in material or workmanship excluding 9 volt battery supplied, and provided the purchaser, at his expense, returns the meter for warranty service to:

Sylvania Light Meter Service Center
E.I.L. Instruments
9020 Wehrle Drive
Clarence, NY 14031

The aforesaid warranty is in lieu of all other warranties, express or implied and manufacturer expressly disclaims any warranty of merchantability or fitness for a particular purpose. Manufacturer will not be liable for any consequential, contingent or incidental damages whatsoever.

SERVICE

Accidental damage, repair, or recalibration may be obtained by returning your Digital Light Meter, postage or shipping prepaid, to the same address listed in warranty, i.e.:

Sylvania Light Meter Service Center
E.I.L. Instruments
9020 Wehrle Drive
Clarence, NY 14031

Include with your meter a description of problem or damage encountered.

LIGHTING GUIDE

Illuminance Categories and Illuminance Values for Interior Activities

Type of Activity	Illuminance Category	Ranges of Illuminances
Public spaces with dark surroundings	A	2-3-5 FC
Simple orientation for short temporary visits	B	5-7-5-10 FC
Working spaces where visual tasks are only occasionally performed	C	10-15-20 FC
Performance of visual tasks of:		
High contrast or large size	D	20-30-50 FC
Medium contrast or small size	E	50-75-100 FC
Low contrast or very small size	F	100-150-200 FC
Low contrast and very small size over a prolonged period	G	200-300-500 FC
Performance of very prolonged and exacting visual tasks	H	500-750-1000 FC
Performance of very special visual tasks of extremely low contrast and small size	I	1000-1500-2000 FC

Source: *IES Lighting Handbook, 1981 Application Volume*, p. 2-5, Illuminating Engineering Society.

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