

OPERATION MANUAL DIGITAL LUX METER

Your purchase of this DIGITAL LUX METER marks a step forward for you into the field of precision measurements. Although this LUX METER is a complex and delicate instruments, its ruggedness will allow many years of use if proper operating techniques are developed. Please read the following instructions carefully and always keep this manual within easy reach.

Attention: the coiled cable with a LIGHT SENSOR allows the user to take measurements at an optimum position, which also comes with a dust cover to keep the frosted light sensor cover from getting dirty or scratched when stored and to help keep calibration accurate.

1. FEATURES

- Precise and easy readout.
- High accuracy in measuring.
- LSI-circuit use provides high reliability and durability.
- Permits a wide range of light measurements.
- LOW BATTERY indicator.
- Auto zero adjust.
- LCD display provides low power consumption.
- Compact, light-weight, and excellent operation.
- LCD display can clearly read out even in high ambient light.
- Separate LIGHT SENSOR allows user take measurements at an optimum position.

2. GENERAL SPECIFICATIONS

| | |
|-----------------------|---|
| Display | 18mm (0.7") LCD (Liquid Crystal Display). |
| Ranges | 0-50,000 Lux. 3 Ranges. |
| Over-input | Indication of "1" |
| Sampling Time | 0.4 second. |
| Operating Temperature | 0° to 50° C. (32° -122° F) |
| Operating Humidity | less than 80% R.H. |

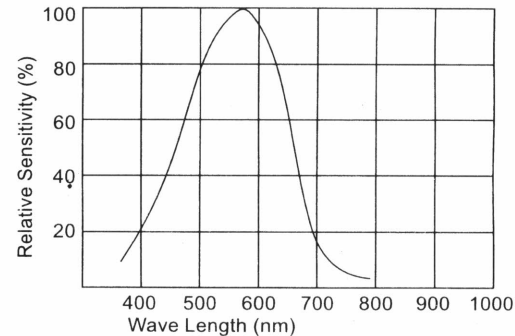
| | |
|----------------------|--|
| Dimension | 118 x 70 x 29mm (4.6 x 2.7 x 1.1 inch). |
| Weight | 200g / including battery. |
| Power Supply | 006P DC9V battery, Consumption current approx. 2 mA. |
| Standard Accessories | Light Sensor 1 pc. Instruction manual 1 pc. |

3. ELECTRICAL SPECIFICATIONS

| Range | Resolution | Accuracy (23±5° C) |
|-------------------|------------|--------------------|
| 0-2,000 Lux | 1 Lux | ± (5%+2d) |
| 2,000-19,990 Lux | 10 Lux | ± (5%+2d) |
| 20,000-50,000 Lux | 100 Lux | ± (5%+2d) |

NOTE Accuracy tested by a standard parallel light tungsten lamp of 2854° K temperature,

4. SPECTRUM FOR LIGHT SENSOR:



5. CORRECTION FACTOR:

| | |
|--------------------|-------------|
| Mercury Lamp | x 1.1 |
| Fluorescent Lamp | x 1.0 |
| Incandescent Light | x 1.0 |
| Daylight | x 1.0 |

6. FRONT PANEL DESCRIPTION

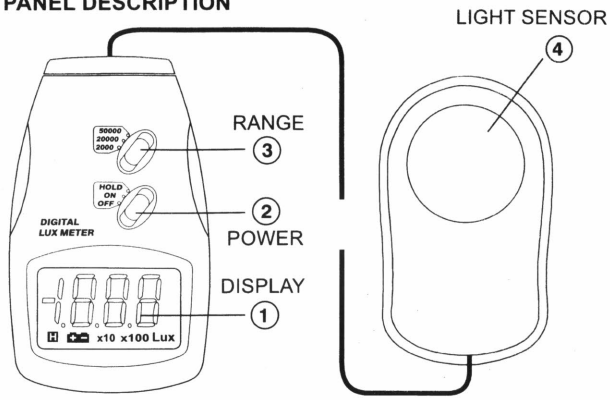


Fig. 1

7. MEASURING CONSIDERATION:

As the DIGITAL LUX METER is a high accurate & sensitive instrument and its PHOTO SENSOR has special feature for the curve on low display reading area. Therefore if display indicates one or more leading zeros, user has to shift Range switch to the next lower range scale to improve resolution and accuracy. For example.

| | | | |
|-----------------|-----|------|-------|
| Range | x 1 | x 10 | x 100 |
| Display Reading | 182 | 018 | 002 |

User should select Range Switch to " x 1 " range., and the exact reading values is 182 Lux.

8. REPLACEMENT OF BATTERY

- (1) It is necessary to replace battery, when left corner of LCD display show " ".
- (2) Slide the battery cover.
- (3) Replace the battery (006P DC 9V).

| ADEQUATE LIGHT LEVELS FOR YOUR WORKING OR AT YOUR WORK AREAS | | Luxes (lx) | | | | | | | | | |
|--|----------------------|----------------|-------|-------|--|---|--|---|----------------------------|--|--------|
| | | 10,000 | 5,000 | 3,000 | 2,000 | 1,500 | 1,000 | 750 | 500 | 300 | 200 |
| LOCATIONS | FACTORY | | | | ELECTRONIC PARTS ASSEMBLY LINE • DRAFTING | TYPESETTING AT PRINTING SHOP • INSPECTION WORK | VISUAL WORK AT PRODUCTION LINE | PACKING WORK | EXIT ENTRANCE PASSAGE | INDOOR EMERGENCY STAIRS WAREHOUSE • LOADING OR UNLOADING WORK | 20 |
| | | | | | | | CONFERENCE ROOM DINING ROOM RECEPTION ROOM | CORRIDOR STAIRS. | CORRIDOR STAIRS. WAREHOUSE | INDOOR EMERGENCY STAIRS | 30 |
| LOCATIONS | OFFICE | | | | • TYPING • DRAFTING | CLERICAL WORK | | | | | 50 |
| | | | | | • SEWING | • READING • STUDY | • MAKEUP • DISPLAY STAND | • DINING TABLE | • RECREATION ACTIVITIES | ENTRANCE WAREHOUSE | 75 |
| LOCATIONS | HOUSE | | | | | | | | | | 100 |
| | | | | | | | ELEVATOR | RECEPTION ROOM | INDOORS | | 150 |
| LOCATIONS | STORE | | | | • FOREFRONT OF SHOW WINDOW | • SHOW WINDOW • PACKING TABLE | | | CORRIDOR STAIRS | | 200 |
| | | | | | | | OPERATING ROOM EMERGENCY TREATMENT | MEDICAL EXAMINATION ROOM DINING ROOM | WAITING ROOM | SICK ROOM WAREHOUSE | 300 |
| LOCATIONS | HOSPITAL | | | | | | | | | EMERGENCY STAIRS | 500 |
| | | EYE INSPECTION | | | | | | | | | 1000 |
| LOCATIONS | SCHOOL | | | | | | • DRAFTING ROOM • LABORATORY LIBRARY | | | | 2000 |
| | | | | | | | | INDOOR GYMNASIUM AUDITORIUM WASHROOM | | EMERGENCY STAIRS | 5000 |
| LOCATIONS | RESTAURANT | | | | | | | | | | 10000 |
| | | | | | | | COOKING ROOM DINING TABLE | ENTRANCE WASHROOM | CORRIDOR STAIRS | | 20000 |
| LOCATIONS | BARBER BEAUTY PARLOR | | | | | | • SHAVING • HAIR WASHING • HAIR DRESSING | | | | 50000 |
| | | | | | | | | | | | 100000 |