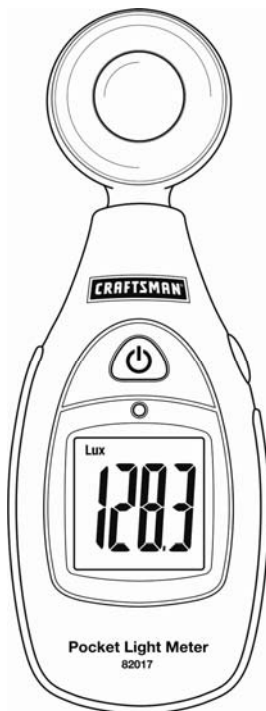


Owner's Manual



Pocket Light Meter

Model 82017



CAUTION: Read, understand and follow Safety Rules and Operating Instructions in this manual before using this product.

- Safety
- Operation
- Maintenance
- Español

ONE YEAR FULL WARRANTY

CRAFTSMAN ONE YEAR FULL WARRANTY

FOR ONE YEAR from the date of purchase, this product is warranted against defects in material or workmanship. A defective product will be replaced free of charge.

For warranty coverage details to obtain free replacement, visit the web site: www.craftsman.com

This warranty is void if this product is ever used while providing commercial services or if rented to another person.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Sears Brands Management Corporation, Hoffman Estates, IL 60179

**For Customer Assistance Call 9am-5 PM (EST)
Monday through Friday 1-888-326-1006**

SAFETY INSTRUCTIONS

Use **CAUTION** when operating this device. The light sensor is sensitive and should be handled with great care.

SPECIFICATIONS

Ranges and Resolution	Accuracy
LUX	± (5% reading + 10 digits (<10000 LUX/fc)
200.0, 2000, 20000, 40000	± (10% reading + 10 digits (>10000 LUX/fc)
Foot candles (Fc)	Note that readings over 1999 will show the x10 or x100 multiplier. In these cases, multiply the displayed value by the multiplier to obtain the correct reading.
20.0, 200.0, 2000, 4000	

Display	1999 Count Backlit LCD with LUX, fc, battery, and MAX indicators
Display Polarity	Automatically detects polarity; displays (-) for negative polarity
Over range indication	LCD displays 'OL'
Low Battery Indication	Battery icon appears when battery voltage is below operating level
Measurement rate	2.5 readings per second, nominal
Measurement Repeatability	±2%
MAX indication	Displays highest reading
Temperature coefficient	±0.1% per °C
Photo detector	Silicon photo-diode with spectral response filter
Sensor Calibration	Calibrated to standard incandescent lamp; color temperature 2856k
Spectral response	CIE photopic (CIE human eye response curve)
Power supply	9V battery
Auto Power Off	Meter automatically switches off after 17 minutes of inactivity
Operating conditions	Temperature: 32 to 104°F (0 to 40°C); Humidity: < 80% RH
Storage conditions	Temperature: 14 to 140°F (-10 to 60°C); Humidity: < 80% RH
Dimensions	6.2 (H) x 2.1 (W) x 1.3 (D) "(157 x 54 x 34mm)
Weight	6 oz. (170g)

BATTERY INSTALLATION

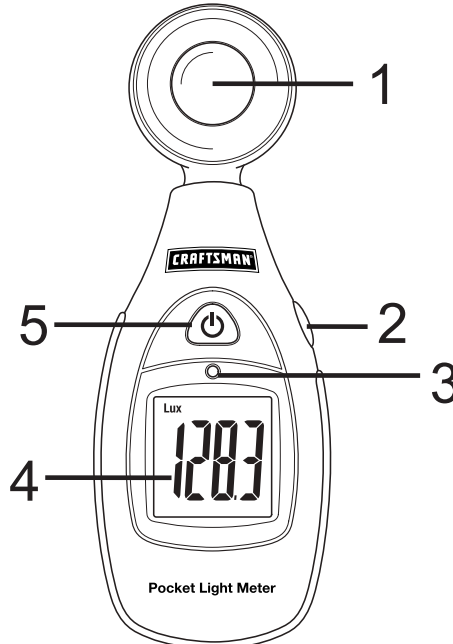
When the battery power begins to fail the low battery symbol will appear on the LCD. Replace the 9V battery by following these steps.

1. Open the rear battery compartment to access the battery
2. Replace the 9V battery, carefully securing the battery in the compartment
3. Securely fasten the compartment cover
4. Ensure that the compartment cover is securely fastened before using the meter

METER DESCRIPTION


1. **Photo detector** (Light Sensor): The sensor contains a long life silicon photo diode
2. **MAX-LUX/fc function button**: Press button momentarily to view the maximum (MAX) reading. Press the button momentarily again to release the MAX display and return to the normal operating mode. Press and hold this button for at least 2 seconds to switch between LUX and fc (foot candle) units of measure. Note that 1fc = 10.76 LUX).
3. **LCD Backlight Control Sensor**: The meter switches the LCD backlight ON and OFF automatically based on environmental lighting conditions.
4. **LCD display**: 1999 count, backlit LCD with LUX, fc, MAX, and low battery icons.
5. **Power button**: Press to switch the unit ON or OFF.

Note: Battery compartment and tripod mount located on rear of instrument.



OPERATING INSTRUCTIONS

Turn Power ON or OFF

Press the  button to turn power on or off. If the display does not switch on, check that a 9V battery is installed and is fresh.

Selecting LUX or Foot candle (fc) units of measure

Press and hold the MAX-LUX/fc button for at least 2 seconds to switch between **LUX** and **Fc** units.

Measurement Procedure

1. Switch the meter ON and position the light sensor to capture the light that is to be measured.
2. The display will indicate the light level in Fc or LUX units.
3. The meter automatically selects the correct range. If the 'OL' icon appears, the light measurement is out of range and cannot be measured accurately.
4. If the **x10** or **x100** indicator appears, multiply the displayed value by the corresponding multiplier to obtain the correct measurement value.

Max Hold

Momentarily press the MAX-LUX/fc button to view the highest reading (MAX) encountered since the meter was last switched ON. Press the button again to return to the normal operating mode. To reset the MAX reading, switch the meter OFF and then ON again.

Backlight

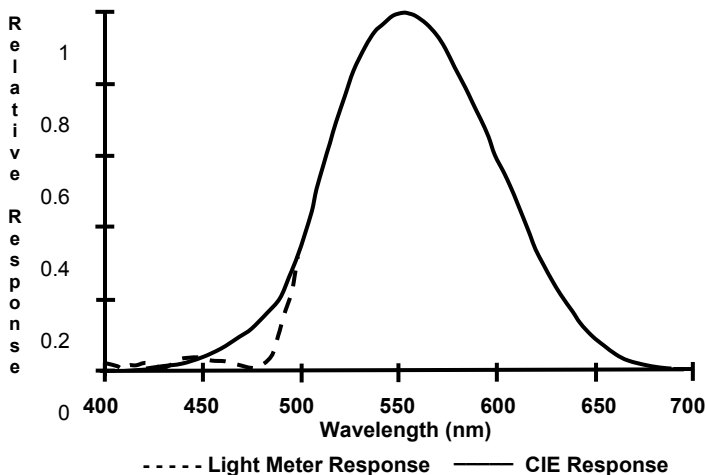
The meter automatically controls the LCD backlighting (ON and OFF) to match the available environmental lighting.

APPENDIX

Typical Light Levels

Lux	Foot Candles		Lux	Foot Candles	
		Factories			Home
20-75	2-7	Emergency Stairs, Warehouse	100-150	10-15	Washing
75-150	7-15	Exit/Entrance Passages	150-200	15-20	Recreational Activities
150-300	15-30	Packing Work	200-300	20-30	Drawing Room, Table
300-750	30-75	Visual Work: Production Line	300-500	30-50	Makeup
750-1,500	75-150	Typesetting: Inspection Work	500-1,500	50-150	Reading, Study
1,500-3,000	150-300	Electronic Assembly, Drafting	1,000-2,000	100-200	Sewing
		Office			Restaurant
75-100	7-10	Indoor Emergency Stairs	75-150	7-15	Corridor Stairs
100-200	10-20	Corridor Stairs	150-300	15-30	Entrance, Wash Room
200-750	20-75	Conference, Reception Room	300-750	30-75	Cooking Room, Dining Table
750-1,500	75-150	Clerical Work	750-1,500	75-150	Show Window
1,500-2,000	150-2000	Typing, Drafting			
		Store			Hospital
75-150	7-15	Indoors	30-75	3-7	Emergency Stairs
150-200	15-20	Corridor/Stairs	75-100	7-10	Stairs
200-300	20-30	Reception	100-150	10-15	Sick Room, Warehouse
300-500	30-50	Display Stand	150-200	15-20	Waiting Room
500-750	50-75	Elevator	200-750	20-75	Medical Exam Room
750-1,500	75-150	Show Window, Packing Table	750-1,500	75-150	Operating Room
1,500-3,000	150-300	Storefront, Show Window	5,000-10,000	500-1000	Eye Inspection

Spectral Sensitivity



TROUBLESHOOTING

There may be times when your meter does not operate properly. Here are some common problems that you may have and some easy solutions to them.

Meter Does Not Operate:

1. Read all of the instructions in this manual before use.
2. Check to be sure that the battery is properly installed.
3. Check to be sure that the battery is fresh.

If You Do Not Understand How the Meter Works:

Call our Customer Service Line **1-888-326-1006**.

SERVICE AND PARTS

For replacement parts shipped directly to your home

Call 9 am – 5 pm Eastern Time, M - F

1-888-326-1006