

User Manual

Mini Light Meter



Please read this user manual thoroughly before using this unit and keep it for your future reference.

Contents

1. Safety	2
2. Introduction	3
3. Features	3
4. Specifications.....	4
5. Meter Description	5
6. LCD Display Description	6
7. Operation Instructions	7
8. Accessories.....	9

1. Safety

Read the following safety information carefully before attempting to operate the meter.

Use the meter only as specified in this manual; otherwise, the warranty may be invalidated.

▲ Environment conditions:

- $RH \leq 90\%$ (Non-Condensation)
- Operating Temperature: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$
- Storage Temperature: $-20^{\circ}\text{C} \sim 60^{\circ}\text{C}$

▲ Maintenance

- Repairs, servicing or calibration should only be performed by ATP Instrumentation Ltd.
- Wipe the unit with a dry soft cloth. Do not use abrasives or solvents on this instrument.

▲ Safety Symbol

CE Complies with EMC

2. Introduction

This Light Meter is designed to meet the measurement requirements of safety Engineers, Health, Industrial safety offices and light quality control in various environments like factories, schools, construction sites etc.

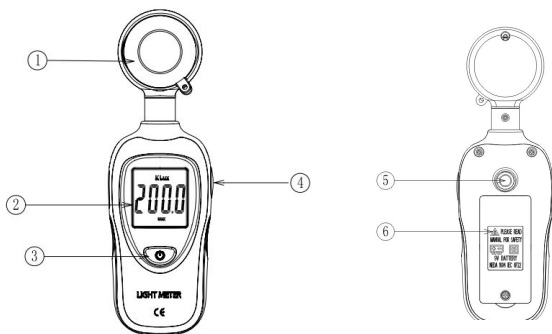
3. Features

- Measuring range: 0 to 200,000 Lux / 0 to 20,000 Fc
- Automatically revise parameters for non-standard illumination
- Selectable measurement units LUX/FC
- MAX/MIN of Measured Values
- Large LCD display
- LCD display with backlight, facilitating the operation in dark environments.
- Automatic measurement
- Low battery indication
- Meter automatically shuts down after approx. 15 minutes of inactivity

4. Specifications

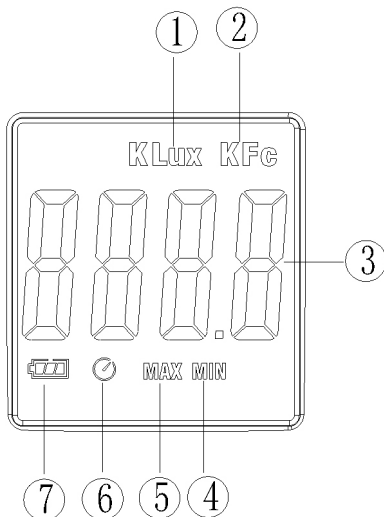
- Display: 4 digits LCD display
- Measuring range: 0 to 200,000 Lux, 0 to 20,000 Fc
- Spectral response: CIE photopic (CIE human eye response curve)
- Over range indication: LCD displays "-OL-" or "-LO-"
- Spectral accuracy: CIE V λ function
($f_1' \leq 6\%$, $f_2' \leq 2\%$)
- Accuracy: $\pm 3\%$ rdg $\pm 0.5\%$ f.s. (<10,000Lux)
 $\pm 4\%$ rdg ± 10 digits (>10,000Lux)
- Sampling rate: 2 times per second
- Photo detector: Silicon photo-diode with spectral response filter
- Battery life: at least 60 hours
- Operating conditions: Temperature : -20°C ~ 60°C
Humidity: 10%RH ~ 90%RH
- Storage conditions: Temperature: -20°C ~ 60°C
Humidity: 10%RH ~ 75%RH
- Power supply: 1x 9V battery, 006P, NEDA1604 or IEC6F22
- Dimensions (L x W x H): 172 x 55 x 38mm
- Weight: 88g

5. Meter Description



- ① Photo detector
- ② LCD display
- ③ Power ON/OFF button
- ④ Fc/Lux button
- ⑤ Tripod bush
- ⑥ Battery compartment


6. LCD Display Description





- (1) KLux Illuminance units
- (2) KFc Illuminance units
- (3) Measurement readings
- (4) MIN icon
- (5) MAX icon
- (6) Auto power off icon
- (7) Low battery indication

7. Operation Instructions


(1) Backlight & Power ON/OFF Function

Power ON: To turn the meter on, press the "" button for 1 second until the LCD is lit, then release the button.

Power OFF: To turn the meter off, press and hold the "" button for approx. 3 seconds until the LCD switches off, then release the button.



Backlight: After turning the meter on, momentarily press the "" button and the backlight will turn on/off. It will automatically turn off after approx. 30 seconds of inactivity.

(2) Fc/Lux & MAX/MIN Function

① **Fc/Lux:** Press the "" button to select Fc units or Lux button.

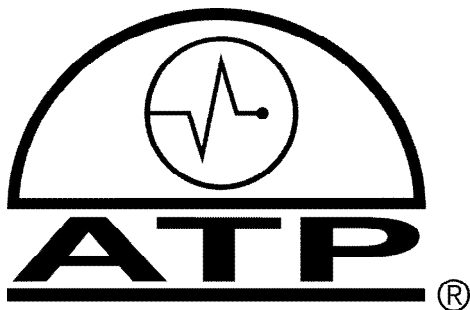
② **MAX/MIN:** Press and hold the "" button for at

least 3 seconds until "MAX" icon appears on the LCD to view the current MAX reading. To view the current MIN reading, press the button again and the "MIN" icon will appear. To exit the MAX/MIN mode, press and hold the "Fc/Lux" button for 3 seconds.

- (3) Open battery cover and install a 9-volt battery in the battery compartment.
- (4) When the low battery icon "  " appears, replace the meters battery.
- (5)  Auto power off icon, the meter will automatically turn off after approx. 15 minutes of inactivity.
- (6) Remove the battery when the meter is to be stored for long periods of time to avoid battery leakage.

8. Accessories

- ① User manual
- ② 9V battery



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