

Model: AR823

# Digital Lux Meter

## Instruction Manual

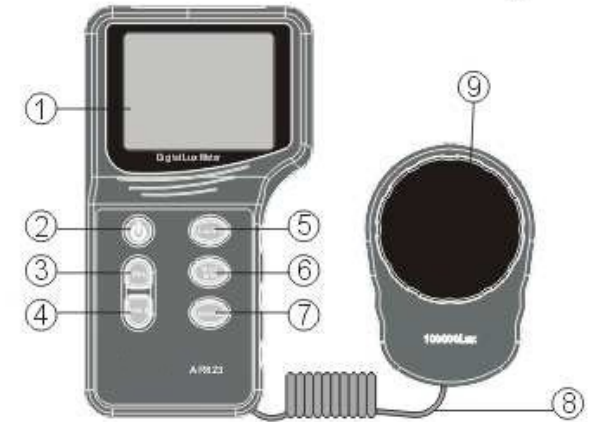


1. Features:
  - Wide range measurement
  - Accurate measuring
  - Data hold
  - Max / Min measurement
  - Relative function
  - Lux / Fc selectable
  - 3 measuring ranges

2. Operations
  - (1) Install 9V battery correctly, remove protective sensor cover and press ON/OFF button for measurement.
  - (2) Lux / Fc selection: Press Lux / Fc button to change measuring unit.
  - (3) Measuring range selection: Press Range button to select the desired measuring range:
    - 1st range: 0 - 2000Lux (Reading X1);
    - 2nd range: 2000 - 20000Lux (Reading X10);
    - 3rd range: 20000 - 100000Lux (Reading X100);If the measurement is out of range, an OL indication will appear.
  - (4) Max / Min function: Press MAX MIN button, LCD display MAX HOLD indication and maximum reading, press MAX MIN button again to for minimum reading, LCD display MAX HOLD and lock the reading, press again will back to normal measurement mode.
  - (5) Data hold: Displays can be held at any time by pressing the HOLD button while in normal mode.
  - (6) Relative function: Press REL button to enter relative comparison function, main display is the current reading, average measuring reading is underneath.
  - (7) When the battery icon is shown (low battery indication) please replace the battery to prevent imprecision measurement.
  - (8) Power off: The unit will automatic turn off in 5 mins, press ON/OFF button to turn off the unit directly.

3. Specification
  - Measuring range: 1 to 100,000Lux
  - Sampling rate: 1.5 times/sec
  - Measurement repeatability:  $\pm 2\%$

- Accuracy:  $<3\% \text{ rgd} \pm 0.5\% \text{ f.s}$   
 $\pm(4\% \text{ rgd} \pm 10 \text{ dgts}) \text{ if } < 10000 \text{ Lux}$   
(calibrated to a standard incadescent lampe at color temperature 2856K)  
Power supply: 9V battery  
Operation conditions:  $0^{\circ}\text{C} \sim 50^{\circ}\text{C}$ ;  
 $\leq 80\% \text{RH}$  non-condensing  
Storage conditions:  $-10^{\circ}\text{C} \sim 50^{\circ}\text{C}$ ;  
 $\leq 70\% \text{RH}$  non-condensing



4. Diagram description
  - (1) LCD
  - (2) ON / OFF button
  - (3) Relative function button
  - (4) Data hold button
  - (5) Lux / Fc switch button
  - (6) Max / Min function button
  - (7) Range switch button
  - (8) Conection leadwire
  - (9) Sensor protective cover