

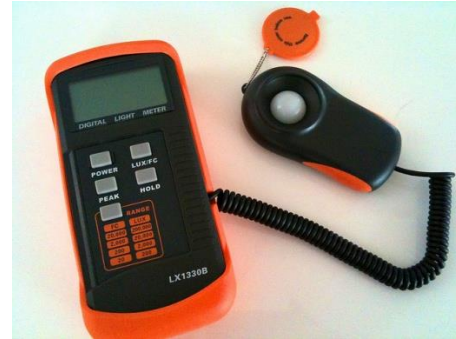


The National Optical Astronomy Observatory's Dark Skies and Energy Education Program Luxmeter Instructions



Introduction:

The newly released Sinometer Luxmeter LX1330B is a luxmeter with wide measuring range and lots of nice features. A luxmeter is used for checking the level of luminance, or the light falling on a surface. It is defined as: the density of the luminous flux incident on a surface. This convenient gadget is widely used in many areas such as construction, inspection, photography, greenhouse gardening etc.



Operation:

1. Power-up: press the power key to turn the meter ON or OFF.
2. Selecting the Lux/FC scale: set the range selection switch to desired Lux/FC range.
3. Remove the photo detector cap and face it to light source in a horizontal position.
4. Read the luminance nominal from the LCD display. 2.5 With the cap on the photo detector and the power turned on, the reading should be zero.
5. Over range: if the instrument only display one "1" in the M.S.D., the input signal is too strong, and a higher range should be selected.
6. Data-Hold mode: press the HOLD key to select Hold mode. When HOLD mode is selected, the illuminance meter stops all further measurements. Press the HOLD key again to cancel HOLD mode. Then it resumes normal operation.
7. Data-Peak mode: press the PEAK key to select PEAK mode. When PEAK mode is selected, the luxmeter stops all further measurements. Press the HOLD key again to cancel HOLD mode. Then it resumes normal operation.
8. When the measurement is completed, replace the photo detector cap and turn the power selector OFF.

Parts:

1. LCD Display: 3-1/2 Digits with a maximum reading of 1999.

2. Power Switch: The power switch key turns the luminance meter ON or OFF.

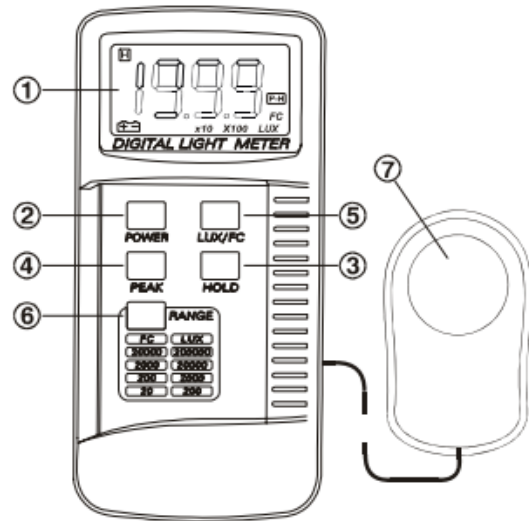
3. Data-Hold Switch.

4. Data-Peak Switch: Pressing the PEAK key again to clear the peak recording mode.

5. Lux/FC Unit Switch: pressing the Lux/FC key to choose Lux or FC unit.

6. Range Switch: Pressing the range key changes 200Lux/20FC, 2,000Lux/200FC, 20,000Lux/2,000FC, 200,000Lux/20,000FC ranges, circularly.

7. Photo Detector.



Specifics:

This instrument measures 0~200,000 Lux for a wide range of use Ideal for use by architect, lighting designer or photograph hobbyist. Auto zero adjustment, high accuracy Separate light sensors allows to take measurements at an optimum position. Displays in Lux or fc (1fc =10.76Lux) data hold, peak hold, low battery indication.

Technical Specifications:

- Range: 200/2,000/20,000/200,000 Lux;
- 20/200/2,000/20,000 fc
- Accuracy: $\pm 3.0\% + 10\text{dgt}$
- $\pm 5.0\% + 10\text{dgt}$ ($> 20,000$ Lux)
- Resolution: 0.1Lux, 0.01fc
- Response time: 0.4 sec
- Dimensions: 79x160x43mm