

Wide Range Light Meter

ANAHEIM SCIENTIFIC



Professional
Environmental Meters

Description:

The model H100 is an ideal meter for measuring light levels in both lux and foot-candle units of measure. The meter's wide measuring range allows it to be used in many applications such as interior design, photography, energy audits and installation of electrical fixtures. It is perfect for general applications, including measuring lighting levels in the home, office, restaurant, school, etc.

Features:

- Large LCD display with bar graph
- Wide measurement ranges: 40.00/400.0/4,000/40,000/400,000lux
- Display resolution: 0.04lux to 100lux, 0.01fc to 10fc (foot-candle = fc)
- 4-light type select (Tungsten, Fluorescent, Sodium or Mercury)
- Sensor meets C.I.E. spectrum, 2 filters
- Data hold, Record (max., min.)
- Longer battery life compared to 9V
- Displays values in both lux or foot-candle
- Two year warranty

Applications:

- Science experiments
- Photography
- Manufacturing
- Agriculture
- Artistry



WARRANTY



Specifications:

Display	5 Digit LCD with bar graph indicator			
Measurement Ranges	40.00/400.0/4,000/40,000/400,000lux			
Unit of Measurement	lux or Foot-Candle (fc)			
Measurable Lighting Sources	Tungsten, Fluorescent, Sodium or Mercury Lamps			
Sensor	Photo diode & color correction filter, spectrum meets C.I.E. Cosine correction factor standards			
Display values:				
Unit	Range	Range Display	Resolution	Accuracy**
lux	40	0 to 40.00 Lux	0.01 Lux	± (3% rdg + 0.5 % F.S.)
	400	36.0 to 400.0 Lux	0.1 Lux	
	4,000	360 to 4,000 Lux	1 Lux	
	40,000	3,600 to 40,000 Lux	10 Lux	< 100,000 Lux : ± (3% rdg + 0.5 % F.S.)*
	400,000	10,000 to 400,000 Lux	100 Lux	
fc (foot-candle)	4	0 to 3.720 Fc	0.001 Fc	± (3% rdg + 0.5 % F.S.)
	40	3.35 to 37.20 Fc	0.01 Fc	
	400	33.5 to 372.0 Fc	0.1 Fc	
	4,000	335 to 3,720 Fc	1 Fc	< 9,300 Fc : ± (3% rdg + 0.5 % F.S.)*
	40,000	930 to 37,200 Fc	10 Fc	
Zero Adjust	40.00lux range only			
Peak Hold	Displays peak value			
Data Hold	Display freeze			
Memory	Saves MAX. or MIN values with recall			
Power Off	Auto or manual control			
Over and Under Range Indicator	Over range indicator: " ---- " (top of the display) Under range indicator: " _ _ _ _ " (bottom of the display)			
Data Output	RS-232 Serial data output			
Operating Environment	32° to 122°F (0° to 50°C), <80% R.H.			
Power Supply	6 Pieces of DC 1.5V Batteries (UM4, AAA or equivalent)			
Weight (approx.)	0.79lbs. (357g)			
Dimensions (approx.)	Main instrument: 6.9 x 2.7 x 1.7" (174 x 68 x 42mm) Sensor probe: 3.5 x 2.4 x 0.8" (89 x 61 x 20mm)			
Included Accessories	Instruction manual, battery, carrying case			
* = Accuracies for lux over 100,000 and fc over 9,300 are not specified. Readings are for reference only.				
** = Note : Accuracy tested by a standard parallel light tungsten lamp of 2856 K degree temperature.				



Includes:

- Light meter
- Sensor probe
- Instructional manual
- 1.5VDC battery x 6
- Hard carrying case

This instrument conforms to:

- **EN61326:** Electrical equipment for measurement, control and laboratory use.
- **IEC61000-4-2:** Electrostatic discharge immunity test.
- **IEC61000-4-3:** Radiated, radio-frequency, electromagnetic field immunity test.
- **IEC61000-4-8:** Power frequency magnetic field immunity test.