



## LM-120 Light Meter with Auto Ranging

The Amprobe LM-120 light meter measures the visible light from fluorescent, metal halide, high-pressure sodium or incandescent sources. It is a portable, easy-to-use digital light meter designed for simple one-hand operation reading in Lumen (lux) or footcandle (fc) units. The LM-120 measures a wide range of light up to 20,000 fc or 200,000 lux with an accurate, high resolution of 0.01 fc/lux. This unit is Autoranging plus manual ranging with ability to Zero out the reading before taking a measurement.

Use the LM-120 light meter to measure the illumination level in the interior and to switch off or reduce or increase the output level of lighting fixtures. Reduce the energy burden of the building by significantly increasing the efficiency of its lighting system.

One lux is the illumination from a one candela lamp perpendicular to a surface one meter squared at a distance of one meter. One fc is the illumination from a one candela lamp perpendicular to a surface one foot squared at a distance of one foot. 1 foot-candle = 10.764 Lux and 1 lux = 0.09290 footcandles

### No hassle warranty

*No waiting.*

*No shipping  
charges.*



Our commitment to high-quality products and customer service is demonstrated by our industry exclusive "No Hassle" warranty. In the unlikely event that an Amprobe Test Tool requires warranty service, any of our local dealers are authorized to replace it, on the spot.

(note: \$500 MSLP limit)

- Measure in Lux or Footcandles, front panel switchable
- Measuring Range to 200,000 Lux or 20,000 Foot candles
- Silicon photodiode sensor and filter
- Data Hold to freeze reading on the digital display
- MIN / MAX ability to show high and low readings
- Autoranging plus Manual Range
- Zero function to null display before a reading
- Auto Power Off to save battery life
- Includes protective sensor cap
- Large, 3-1/2 digit display

## LM-120 Light Meter with Auto Ranging

## Data Sheet

### Specifications

<b>Illumination</b>	Accuracy at 23°C ± 5°C (73.4°F ± 5°F), < 75% R.H.	
<b>Sensor</b>	Silicon photodiode and filter	
<b>Measurement rate</b>	2.5 times per second	
<b>Range</b>	20, 200, 2000, 20000, 200000 Lux 20, 200, 2000, 20000 Foot candles	
<b>Accuracy</b>	± 3% (Calibrated to standard incandescent lamp at 2854°K) 6% other visible light sources	
	<b>Angle deviation from cosine</b>	<b>Characteristics</b>
	30°	± 2%
	60°	± 6%
	80°	± 25%
	Cosine Angular corrected per JIS C 1609:1993 and CNS 5119 general A class	
<b>Resolution</b>	0.01 fc/lux	

### General Specifications

<b>Display</b>	3¾ digit liquid crystal display (LCD) with a maximum reading of 1999
<b>Sampling Rate</b>	2.5 times per second for digital display
<b>Polarity</b>	Automatic, positive implied, negative polarity indication
<b>Overrange</b>	(OL) or (-OL) is displayed
<b>Zero</b>	Automatic
<b>Low battery indication</b>	The "⚡" is displayed when the battery voltage drops below the operating level
<b>Temperature / Humidity</b>	Operating -10°C to 50°C (14°F to 122°F), 0 to 80%RH Storage -10°C to 50°C (14°F to 122°F), 0 to 70%RH
<b>Altitude</b>	2000m, indoor operation
<b>Power Supply</b>	9V NEDA 1604, IEC 6F22, JIS 006P battery
<b>Battery life</b>	200 hours
<b>Auto Power Off</b>	approx 6 min
<b>Dimension (Base)</b>	130 x 63 x 38 mm (5.1 x 2.5 x 1.5")
<b>Dimension (Sensor)</b>	80 x 55 x 29 mm (3.2 x 2.2 x 1.1")
<b>Weight</b>	220 g (.48 lb.) include battery

### Agency Approvals & Certifications



EN61326-1 This product complies with requirements of the following European Community Directives: 89/336/EEC (Electromagnetic Compatibility) and 73/23/EEC (Low Voltage) as amended by 93/68/EEC (CE Marking). However, electrical noise or intense electromagnetic fields in the vicinity of the equipment may disturb the measurement circuit. Measuring instruments will also respond to unwanted signals that may be present within the measurement circuit. Users should exercise care and take appropriate precautions to avoid misleading results when making measurements in the presence of electronic interference.

**Amprobe® Test Tools**  
 website: [www.Amprobe.com](http://www.Amprobe.com)  
 email: [info@amprobe.com](mailto:info@amprobe.com)  
 Everett, WA 98203  
 Tel: 877-AMPROBE

**Amprobe® Test Tools Europe**  
 Amprobe Test Tools Europe  
 Beha-Amprobe GmbH  
 In den Engematten 14  
 79286 Glottertal, Germany  
 Tel.: +49 (0) 7684 8009 - 0

©2008 Amprobe Test Tools. All rights reserved.  
 7/2008 3358146 Rev A