LM-100 and LM-120
Measure light in Lux or Foot-candles

Dual-scale meters measure visible light from a wide range of light sources

The Amprobe LM-100 and LM-120 light meters measure the visible light from fluorescent, metal halide, high-pressure sodium or incandescent sources. They are portable, easy-to-use digital light meters designed for simple one-hand operation reading in Lumen (lux) or foot-candle (fc) units. The LM-100 and LM-120 measure a wide range of light up to 20,000 fc or 200,000 lux with an accurate, high resolution of 0.01 fc / 0.1 Lux. The LM-120 unit features auto and manual ranging, plus the ability to zero out the reading before taking a measurement.

Use the LM-100 and LM-120 light meters 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 foot-candles.

Features

- **Measure in Lux or Foot-candles,** 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
- **MAX** ability to show high readings (LM-100)
- **MIN/MAX** ability to show high and low readings (LM-120 only)
- **Manual Range** (LM-100)
- **Autoranging plus Manual Range** (LM-120)
- **Zero function** to null display before a reading (LM-120 only)
- **Auto Power Off** to save battery life (LM-120 only)
- **Protective sensor cap**
- **Large, 3-1/2 inch digit display**

LM-100
Light Meter

LM-120
Light Meter with Auto Ranging

Safety Certification

All Amprobe tools, including the Amprobe LM-100 and LM-120, are rigorously tested for safety, accuracy, reliability, and ruggedness in our state-of-the-art test lab. In addition, Amprobe products that measure electricity are listed by a 3rd party safety lab, either UL or CSA. This system assures that Amprobe products meet or exceed safety regulations and will perform in a tough, professional environment for many years to come.

AMPROBE®

Specifications	LM-100	LM-120
Sensor	Silicon photodiode and filter	
Range	200, 2000, 20000, 200000 Lux 20, 200, 2000, 20000 Foot-candles	20, 200, 2000, 20000, 200000 Lux 20, 200, 2000, 20000 Foot-candles
Display	3 1/2 digit liquid crystal display (LCD) with a maximum reading of 1999	
Sampling Rate	2.5 times per second for digital display	
Polarity	Automatic, positive implied, negative polarity indication	
Overrange	(OL) or (-OL) is displayed	
Zero	–	•
Low Battery Indication	The "[-+]" is displayed when the battery voltage drops below the operating level	
Temperature / Humidity	**Operating** 14 °F to 122 °F (-10 °C to 50 °C), 0 to 80%RH **Storage** 14 °F to 122 °F (-10 °C to 50 °C), 0 to 70%RH	
Altitude/Environment	2000m, indoor operation	
Accuracy	± 3 % (Calibrated to standard incandescent lamp at 2854 °K) 6% other visible light sources	
Operating	14 °F to 104 °F (-10 °C to 40 °C), 0 to 80 % RH	
Storage	14 °F to 122 °F (-10 °C to 50 °C), 0 to 70 % RH	
Power Supply	9V NEDA 1604, IEC 6F22, JIS 006P battery	
Battery Life	200 hours	
Auto Power Off	–	Approximately 6 min
Dimension (Base)	5.1 x 2.5 x 1.5 in (130 x 63 x 38 mm)	
Dimension (Sensor)	3.2 x 2.2 x 1.1 in (80 x 55 x 29 mm)	
Weight	0.48 lb (220 g) (including battery)	
Agency Approvals & Certifications	CE - EMC EN61326-1.	

Included: LM-100/LM-120 light meter, 9V battery, carrying case, user manual.

Light Meter Series

	LM-100	LM-120	LM-200LED
Ranging	Manual	Automatic/Manual	Manual
Illumination sensor	Silicon photodiode and filter	Silicon photodiode and filter	Silicon photodiode and filter
Calibration point	2854 °K Cosine Angular corrected per JIS C 1609:1993 and CNS 5119 general A class	2854 °K Cosine Angular corrected per JIS C 1609:1993 and CNS 5119 general A class	2856 °K Cosine Angular corrected per JIS C 1609:1993 and CNS 5119 general A class
Data	Data hold, Max hold	Data hold, Min/Max hold	Data hold, Max hold
Zero function	–	•	•

For complete specifications click to **amprobe.com** for product manuals.