AMPROBE®

Data Sheet



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

- **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**

No hassle warranty

No waiting.

No shipping charges.

WARRANTY NO HASSLE PROGRAM

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)

N10140 CE

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Specifications

Illumination	Accuracy at 23°C ± 5°C (73.4°F ± 5°F), < 75% R.H.
Sensor	Silicon photodiode and filter
Measurement rate	2.5 times per second
Range	20, 200, 2000, 20000, 200000 Lux 20, 200, 2000, 20000 Foot candles
Accuracy	± 3% (Calibrated to standard incandescent lamp at 2854°K) 6% other visible light sources Angle deviation from cosine — Characteristics 30° — ± 2% 60° — ± 6% 80° — ± 25% Cosine Angular corrected per JIS C 1609:1993 and CNS 5119 general A class
Resolution	0.01 fc/lux
General Specifications	
Display	3¾ 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	Automatic
Low battery indication	The "⊟" is displayed when the battery voltage drops below the operating level
Temperature / Humidity	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
Altitude	2000m, indoor operation
Power Supply	9V NEDA 1604, IEC 6F22, JIS 006P battery
Battery life	200 hours
Auto Power Off	approx 6 min
Dimension (Base)	130 x 63 x 38 mm (5.1 x 2.5 x 1.5")
Dimension (Sensor)	80 x 55 x 29 mm (3.2 x 2.2 x 1.1")
Weight	220 g (.48 lb.) include battery
Agency Approvals & Certifications	
CE **- EMC**	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.

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