



These low cost light meters resolve down to .01 lux (LM90), making them appropriate for use in very low light applications such as certifying emergency lighting.

Two versions are available:

LM90: 20 lux to 20 klux

LM92: 200 lux to 200 klux

The handbook gives details of conversion factors for different light wavelengths allowing more accurate measurements.

Peak hold & hold allow a maximum reading to be recorded or one particular result to be kept.

Results can be shown in lux or foot candles.

SPECIFICATIONS

ELECTRICAL

Photometric Formulas:

10.764 footcandles=lux(lumens/meter²)

0.0929 lux=footcandles(lumens/foot²)

LM90 Range: 20lux, 200lux, 2000lux, 20klux
20fc, 200fc, 2000fc, 20kfc

LM92 Range: 200lux, 2000lux, 20klux, 200klux
200fc, 2000fc, 20kfc, 200kfc

Resolution: 0.01 lux, 0.01 fc (LM90)

Resolution: 0.1 lux, 0.1 fc (LM92)

Spectral response: CIE photopic

Acceptance angle: $f^2 < 3\%$ cosine corrected (150°)

Total accuracy for CIE standard illuminant A (2856K):
 $\pm(3\%rdg + 10dgt)$

Display: 3½ digit liquid crystal display (LCD) with maximum reading of 1999

Over range: (OL) is displayed

Low battery indication

Measurement rate: 2.5 times per second, nominal.

Operating Environment: 0°C to 50°C (32°F to 122°F) at < 70% relative humidity

Storage Temperature: -20°C to 60°C (-4°F to 140°F), 0 to 80% R.H. with battery removed from meter

Accuracy: Stated accuracy at 23°C $\pm 5^\circ\text{C}$ (73°F $\pm 9^\circ\text{F}$), <70% relative humidity

Temperature Coefficient: 0.1x (specified accuracy)/°C (<18°C or >28°C), 0.056x(specified accuracy)/°F (<64.4°F or >82.4°F)

Peak/Hold Function

Lux + Foot Candles Measurement units

Backlight display: yes

Battery: Standard 9V battery (NEDA 1604, IEC 6F22 006P)

Battery Life: 200 hours typical with carbon zinc battery

Dimensions: 190mm(H) x 65.5mm(W) x 35mm(D)

Weight: 210g including battery

Accessories: battery, carry case and user manual