



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/meter<sup>2</sup>)

0.0929 lux=footcandles(lumens/foot<sup>2</sup>)

**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