

DIGITAL ILLUMINANCE (LUX) METER

LU8500

DATASHEET

PRODUCT DESCRIPTION

TQC Handheld digital Lux meter with large display.
Easy to use by means of just a few buttons.

STANDARDS

C.I.E. (International Commission on Illumination)

FEATURES

- Light can be quantified in many ways, i.e., Lux, Lumens, Foot-candles, candle power, candelas and so on. The two most common scales are Lux, used in Europe, and Foot-candles used in the U.S.
- High accuracy and rapid response.
- Peak-hold function for tracing peak signals of light pulse with least duration 10 μ s and keep it.
- Capable of selecting measuring mode in lux or fc scale alternatively
- Measurement rate: 1.5 times per second
- Maximum and minimum measurements
- Relative reading and reset function
- Easy to read large backlit display

**SCOPE OF SUPPLY**

Carrying case with ready to use digital meter, instruction manual and battery

ORDERING INFORMATION

LU8500 Digital Illuminance (Lux) Meter

SPECIFICATIONS

Display	3-3/4 digit LCD with high speed 41 segment bar graph
MAX measurement	400.0klux / 40.00 kFc
Over range Display	LCD with "OL" symbol
Spectral response:	CIE photopic
Spectral accuracy	CIE V_{λ} function f_1' smaller than or equal to 6%
Cosine response	f_2' smaller than or equal to 2%
Accuracy	$\pm 5\%$ rdg $\pm 10d.$ ($> 10,000$ Lux); $\pm 10\%$ rdg $\pm 10d.$ ($> 10,000$ Lux)
Repeatability	$\pm 3\%$
Sampling rate	1.5 times of analog bar-graph indication; 1.5 times of digital display
Photo Detector	One silicon photo diode and spectral response filter

USE

Press Function Switch and select the "Lux" scale. Set the desired range by pressing the "Range" button. Point the photo detector to a light source in a horizontal position and read the luminance nominal from the LCD display. When the measurement is completed, replace the photo detector from the light source.

SPECIAL CARE

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over
- Always clean the instrument after use.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Do not use compressed air to clean the instrument.
- Always keep the instrument in its case when not in use.

SAFETY PRECAUTIONS

- Though robust in design, this instrument is precision-machined. Never drop it or knock it over.
- Clean the instrument using a soft dry cloth. Never clean the instrument by any mechanical means such as a wire brush or abrasive paper. This may cause, just like the use of aggressive cleaning agents, permanent damage.
- Always keep the instrument in its case when not in use.
- We recommend annual calibration

DISCLAIMER

The right of technical modifications is reserved.

The information given in this sheet is not intended to be exhaustive and any person using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. Whilst we endeavour to ensure that all advice we give about the product (whether in this sheet or otherwise) is correct we have no control over either the quality or condition of the product or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage (other than death or personal injury resulting from our negligence) arising out of the use of the product. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.