

INSTALLATION & MAINTENANCE MANUAL

## TE5



DIGITAL LUX METER

1 LUX  
TO  
50,000  
LUX

## GENERAL INSTRUCTIONS

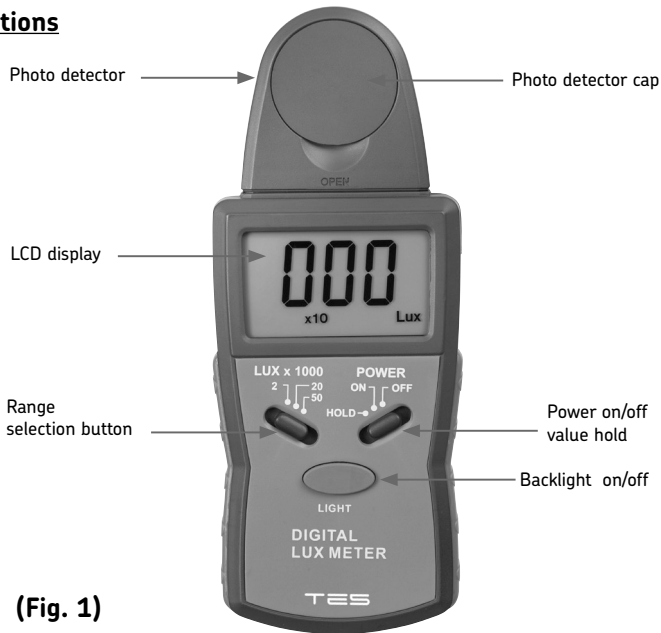
These instructions should be read carefully and retained after installation by the end user for future reference and maintenance.

These instructions should be used to aid the use of the following product: TES

## DESCRIPTION

The Knightsbridge lux meter has a measuring range of between 1 lux and 50,000 lux; accurate to within +/- 4%. Please note that this device is for indication purposes only. Comes with a backlit LCD screen (4 digit). Very easy to use, hand-held, and ideal for surveying or testing light outputs. Supplied with its own carry case. Requires 1 x 9V battery (not included).

### Panel descriptions



(Fig. 1)

## GENERAL SPECIFICATIONS

Display: 3  $\frac{1}{2}$  digits LCD display, maximum reading value display 1999

Range: 1 - 50,000

Lux resolution: 1 lx

Accuracy:  $\leq 10,000\text{lx}$ :  $\pm 4\% \text{rdg} \pm 0.5\text{f.s}$

$\geq 10,000\text{lx}$ :  $\pm 5\% + 10$  digits

(Calibrated to standard incandescent lamp at colour temperature 2856K)

Operation temperature: (0°C to 40°C) 0-70% RH

Storage temperature: (-10°C to 50°C) 0-80% RH

## OPERATING INSTRUCTIONS

- Connect the battery and switch "ON" (see fig. 1)
- Set the range selection switch to desired range: 2 - reads up to 2,000lx; 20 - reads up to 20,000lx; 50 - reads up to 50,000lx
- Remove the photo detector cap and face it to the light source in a horizontal position
- The photo detector can be detached from the body of the sensor to take measurements at an optimum position
- Read the test value from the LCD display
- Over range: if the instrument only displays "1" the input signal is too strong, and a higher range should be selected. If the display reads "OVER" then the light source is out of range
- Slide the switch to "HOLD". When "HOLD" mode is selected, the lux meter stops all further measurements and the test value will be held on the LCD display. Slide the switch from the "HOLD" position to the "ON" position and the held value will be cancelled
- When the measurement is completed, replace the photo detector cap and slide the switch to the "OFF" position

## BATTERY CHECK AND REPLACEMENT

- Low battery indicator appears in the left hand corner of the LCD display when battery power is running low
- After turning off the meter, remove the screw securing the battery cover and push the cover in the direction of the arrow to expose the battery
- Replace battery and slide the battery cover into place and fasten screw

## MAINTENANCE

- The white plastic disk at the top of the detector should be cleaned with a soft dry cloth only, do not use aggressive cleaning products or solvents which may damage the sensor
- Do not store the instrument where temperature or humidity is excessively high
- These units are calibrated at the factory at time of manufacture but are for indication purposes only
- The calibration interval for the photo detector will vary according to operational conditions, but generally the sensitivity decreases in direct proportion to the product of luminous intensity by the operational time. In order to maintain the basic accuracy of the instrument, periodic calibration is recommended

## GENERAL

The unit should be recycled in the correct manner when it reaches the end of its life. Check local authorities for where facilities exist

## WARRANTY

This product has a warranty of 1 year from date of purchase. Improper use, or removal of the batch codes will invalidate the warranty. If this product should fail within its warranty period it should be returned to the place of purchase for a free of charge replacement. Your statutory rights are not affected. ML Accessories reserve the right to alter product specification without prior notice.

### Maintained Illuminance Guide

These lux levels are recommendations made by CIBSE and should only be used as a guide

Sector	Maintained illuminance lux	Sector	Maintained illuminance lux
Nursing homes		Education	
Entrance lobbies	200lux	Classrooms,tutorial rooms	300lux
Lounges (communal)	100-300lux	Lecture hall	500lux
Kitchens	150-300lux	Technical drawing rooms	750lux
Bathrooms	150lux	Practical rooms and laboratories	500lux
Toilets	100lux	Computer practice rooms	300lux
Corridors	20-100lux	Entrance halls	200lux
Staircases	100lux	Circulation areas & corridors	100lux
Quiet/rest rooms	100lux	Stairs	150lux
Dining rooms	150lux	Sports halls, gymnasiums & swimming pools	300 lux
Stores	100lux	School canteens	200lux
Offices		Hospitals	
Filing, Copying, etc...	300lux	Waiting rooms	200lux
Writing, typing reading, data processing	500lux	Corridors: during the day	200lux
Technical drawing	750lux	Corridors: during the night	50lux
CAD work stations	500lux	Day rooms	200lux
Conference and meeting rooms	500lux	Staff office	500lux
Reception desk	300lux	Staff rooms	300lux
Archives	200lux	Autopsy room	5000lux
Public houses		Simple examination room	300lux
Cashier desk	300lux	Operating theatre	1000lux
Kitchen	500lux	Bathroom & toilets for patients	200lux
Retail		Hotels and Leisure	
Sales area	300lux	Reception & Porters desk	300lux
Till area	500lux	Kitchen	500lux
Wrapper table	500 lux	Self-service restaurant	200lux
Dressing rooms	300 lux	Buffet	300lux
Car parks		Conference rooms	500lux
Parking bays (multi-story/underground)	75lux	Corridors	100lux
Access lanes (multi-story/underground)	75lux	Bathroom (hotel suite)	150 lux
Ramps (multi-story/underground)	150lux	Toilets (hotel suite)	100 lux
Corners (multi-story/underground)	150lux	Foyers	200lux
Intersections (multi-story/underground)	150lux	Justice and Custodial	
Multi-story roof level	30lux	Main entrances	200lux
Entrance/exit zones (multi-story/underground) Day300lux/Night	75lux	Corridors	100lux
Pedestrian areas (multi-story/underground)	100lux	Staircases	150lux
Stairs (multi-story/underground)	100lux	Lounges	150lux
Lifts (multi-story/underground)	100lux	Dining rooms	150lux
Rural zones E1 and E2 (outdoor)	15lux	Laundries	300lux
Urban zones E3 and E4 (outdoor)	30lux	Stores	100lux
		Staff office	500lux
		Staff room	300lux