

Order Code : 20213590.1.15  
Name : Earth Tester

## INTRODUCTION

- The digital illuminance meter is a precision instrument used to measure illuminance (Lux, footcandle) in the field.
- It meets CIE photopic spectral response.
- It is fully cosine corrected for the angular incidence of light.
- The illuminance meter is compact, tough and easy to handle owing to its construction.
- The light sensitive component used in the meter is a very stable, long-life silicon photo diode and spectral response filter.

## FEATURES

- Light-measuring levels ranging from 0.1Lux-0.1kLux/0.01FC-0.01kFC, repeatedly.
- High accuracy and rapid response.
- Data-hold function for holding measuring values.
- Unit and sign display for easy reading.
- Automatic zeroing.
- Meter corrected for spectral relative efficiency.
- Correction factor need not be manually calculated for non-standard light sources.
- Short rise and fall times.
- Peak-hold function for tracing the peak signal of light pulse with least duration 10 $\mu$ s and hold it.
- Capable of selecting measuring mode in Lux or FC scale alternatively.
- Auto power off 15minutes.
- Maximum and minimum measurements.
- Relative reading .
- Easy to read large backlit display
- USB output for PC connectivity
- Auto ranging



## SPECIFICATIONS

<b>Display</b>	3-3/4 digit LCD with high speed 40 segment bar graph.
<b>Measuring Range</b>	400.0 Lux,4000 Lux,40.00 KLux and 400.0 KLux /40.00 FC,400.0 FC,4000 FC,40.00 KFC.
<b>NOTE</b>	1FC=10.76Lux,1KLux =1000Lux,1KFC =1000FC
<b>Over range Display</b>	LCD will show "OL" symbol.
<b>Spectral Response</b>	CIE Photopic. (CIE human eye response curve).
<b>Spectral Accuracy</b>	CIE $V_{\lambda}$ , function $f_1 \leq 6\%$
<b>Cosine Response</b>	$f_2' \leq 2\%$
<b>Accuracy</b>	$\pm 5\%$ rdg $\pm 10$ d.( $<10,000$ Lux) $\pm 10\%$ rdg $\pm 10$ d.( $>10,000$ Lux)
<b>Repeatability</b>	$\pm 3\%$
<b>Sampling Rate</b>	1.3 times/sec of analog bar-graph indication;1.3times/sec of digital display.
<b>Photo Detector</b>	One silicon photo diode and spectral response filter.

<b>Operating temperature &amp; Humidity</b>	0°C to 40°C (32°F to 104°F) & 0% to 80% RH.
<b>Storage Temperature &amp; Humidity</b>	-10°C to 50°C (14°F to 140°F) & 0% to 70% RH.
<b>Power Source</b>	1 piece 9V battery.
<b>Photo detector Lead Length</b>	150cm (approx.);
<b>Photo detector Dimensions</b>	115L $\times$ 60W $\times$ 20H(mm);
<b>Meter Dimensions</b>	170L $\times$ 80W $\times$ 40H;
<b>Weight</b>	390g.
<b>Accessories</b>	Carry case, instruction manual, battery.

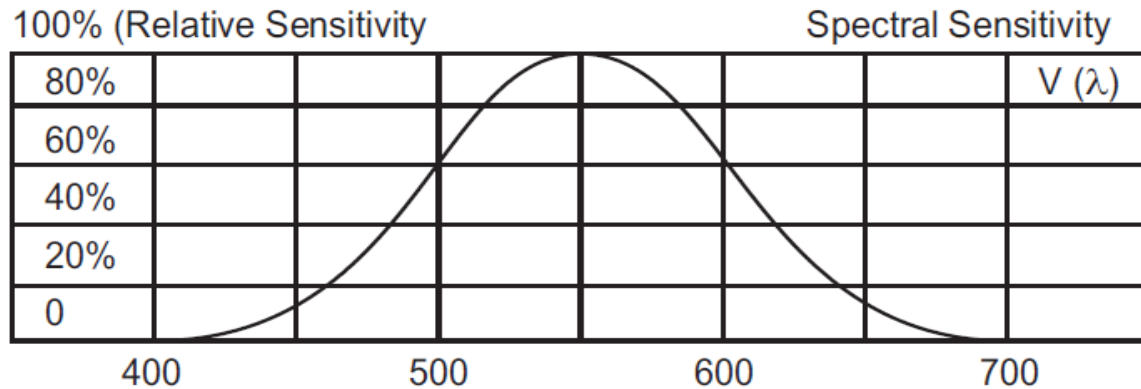
Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

### **TESCA TECHNOLOGIES PVT. LTD.**

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension, Jaipur-302029, Rajasthan, India.  
Ph/ Fax: 91-141-2771791, 2771792; Email: [info@tesca.in](mailto:info@tesca.in), [tesca.technologies@gmail.com](mailto:tesca.technologies@gmail.com)  
Website: [www.tesca.in](http://www.tesca.in)

**SPECTRAL SENSITIVITY CHARACTERISTIC**

To the detector, the applied photo diode with filters makes the spectral sensitivity characteristic almost meet C.I.E.(INTERNATIONAL COMMISSION ON ILLUMINATION) Photo curve V (λ) as the following chart described.



**RECOMMENDED ILLUMINATION**

1FC=10.76Lux

LOCATIONS		Lux	FC
OFFICE	Conference, Reception room	200~750	18~70
	Clerical work	700~1,500	65~140
	Typing drafting	1,000~2,000	93~186
FACTORY	Visual work at production line	300~750	28~70
	Inspection work	750~1,500	70~140
	Electronic parts assembly line	1,500~3,000	140~279
	Packing work, Entrance passage	150~300	14~28
HOTEL	Public room, Cloakroom	100~200	9~18
	Reception	200~500	18~47
	Cashier	750~1,000	70~93
STORE	Indoors Stairs Corridor	150~200	14~18
	Show window, Packing table	750~1,500	70~140
	Forefront of show window	1,500~3,000	140~279
HOSPITAL	Sickroom, Warehouse	100~200	9~18
	Medical Examination Room	300~750	28~70
	Operating room, emergency treatment	750~1,500	70~140
SCHOOL	Auditorium, Indoor Gymnasium	100~300	9~28
	Class room	200~750	18~70
	Laboratory, Library, Drafting, room	500~1,500	47~140

PC System requirements:

Windows 98 or windows 2000 (or higher)

Minimum hardware requirements

Pc or notebook, 90MHz Pentium or faster, 32Mb Ram,

At least 5Mb free hard disk space screen resolution

800×600.

Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.

**TESCA TECHNOLOGIES PVT. LTD.**

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension, Jaipur-302029, Rajasthan, India.

Ph/ Fax: 91-141-2771791, 2771792; Email: [info@tesca.in](mailto:info@tesca.in), [tesca.technologies@gmail.com](mailto:tesca.technologies@gmail.com)

Website: [www.tesca.in](http://www.tesca.in)