METRAVI®
Setting Trends. Showing the Way.

DIGITAL LUX METER WITH USB PC INTERFACE

1334

INTRODUCTION

- The digital illuminance meter is a precision instrument used to measure illuminance (Lux, footcandle) in the field.
- It is 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 form 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 10μs 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

Display	3-3/4 digit LCD with high speed 40 segment bar graph.
Measuring Range	400.0 Lux,4000 Lux,40.00 KLux and 400.0 KLux /40.00 FC,400.0 FC,4000 FC,40.00 KFC.
NOTE	1FC=10.76Lux,1KLux =1000Lux,1KFC =1000FC
Over range Display	LCD will show "OL" symbol.
Spectral Response	CIE Photopic. (CIE human eye response curve).
Spectral Accuracy	CIE Vλ., function f1 ≦ 6%
Cosine Response	f2' ≤ 2%
Accuracy	±5% rdg±10d.(<10,000Lux) ±10% rdg±10d.(>10,000Lux)
Repeatability	±3%
Sampling Rate	1.3 times/sec of analog bar-graph indication;1.3times/sec of digital display.
Photo Detector	One silicon photo diode and spectral response filter.

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

*Technical Specifications & Appearance are subject to change without prior notice

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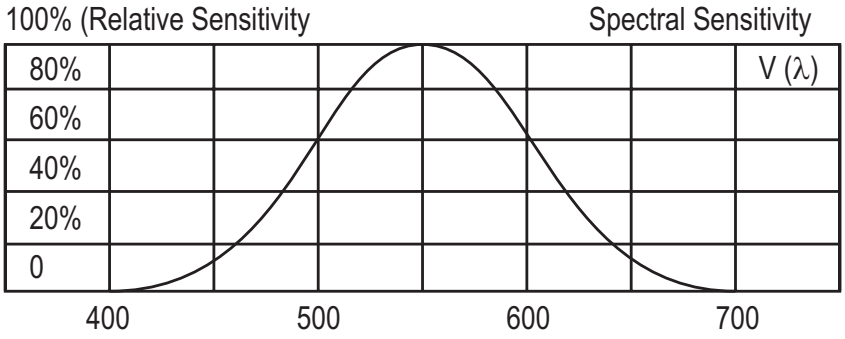
SPECTRAL SENSITIVITY CHARACTERISTIC

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 of faster, 32Mb Ram,
At least 5Mb free hard disk space screen resolution
800×600.

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