



- 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.



## DT-8809A

### DATALOGGING LIGHT METER

- | High Accuracy and Rapid Response
- | Data-Hold function for holding measured 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 stores it
- | Capable of selecting measuring mode in Lux or FC scale alternatively
- | Auto power off 15 minutes or disable Auto Power Off
- | Maximum and minimum measurements
- | Light-measuring levels ranging form 0.1Lux~0.1kLux/0.01FC~0.01kFC
- | Relative reading
- | Easy to Read Large Backlit LCD Display
- | USB output connection with PC
- | 4 Level Ranging
- | 99 values in memory, that could be read on the meter
- | More than 16000 values datalogger



### General Specifications

Display	3- <sup>3</sup> / <sub>4</sub> digit Backlit 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	±3% rdg±0.5%f.s.<10,000Lux), ±4% rdg±10d.>10,000Lux)
Repeatability	±3%
Sampling Rate	1.3 times/sec of analog bar-graph indication;1.3times/sec of digital display Datalogger sampling could be setup
Photo Detector	One silicon photo diode and spectral response filter
Operating temperature & Humidity	0°C to 40°C (32°Fto 104°F) & 0% to 80% RH.
Storage Temperature & Humidity	-10°C to 50°C (14°F to 140°F) & 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.

### 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

### Accessories

Carrying Case, Instruction Manual, USB Cable, Software.



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