

FEATURES

- This light meter offers a large backlit LCD display for real-time measurement and easy to read data
- It offers a sample rate of 2.5 times per second for digital display
- Low Battery and overload indication feature
- Spectral response close to CIE luminous spectral efficiency
- Cosine Angular Corrected
- Suitable for measuring light sources from LED white light and all visible light
- Offers user-selectable Lux / Footcandle scales for different measurement intensities of illumination
- This light meter also offers data hold, maximum/minimum/average hold, auto-ranging and zero adjustment features
- Auto Power Off and Disable function

RS PRO Light Meter - ILM1335 Light Meter

RS Stock No.: 1469083



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

RS PRO RS-3809 Light Meter

Introducing the RS PRO RS-3809 Light Meter. It's a great piece of equipment that measures light from visible luminaries equipped with white light LED, fluorescent and many more sources. The ergonomic design and construction of the light meter makes it easy to handle with a tough design, which means it's suitable for use in harsh environments. It offers an easy to use interface with an extendable cable for the light sensor to increase the ease of use and flexibility across a wide range of applications, making it an essential light measurement instrument for professional or amateur use.

General Specifications

Model Number	RS-3809
Sensor Type	Silicon Photo Diode
Display Type	3-3/4 digit LCD with bargraph indication.
Display Digit Height	
Data Memory Capacity	
Features	Suitable for measuring light sources from LED white light and all visible light
Temperature Characteristics	
Interface	USB / Bluetooth
Applications	Measure light levels or light pollution within the environment
Calibration Availability	Yes

Light Measurement

Measuring Range	40, 400, 4000, 40000, 400000 Lux 40, 400, 4000, 40000 Footcandles
Maximum Light Level	400000lx
Minimum Light Level	40lx
Accuracy	±3 %
Resolution	
Sampling Rate	2.5 times per second for digital display
Measuring Angle	2°
Repeatability	
Spectral Response	
Spectral Accuracy	

Electrical Specifications

Power Source	Battery
Battery Included	No
Battery Type	9V
Battery life	
Plug Type	Type C - Euro Plug / Type G – British / UK Plug

Mechanical Specifications

Dimensions	162 mm x 63 mm x 28 mm
Width	63mm
Depth	162mm
Height	28mm
Weight	250g
Casing Material	Plastic
Photosensor Lead Length	
Photosensor Dimensions	

Operation Environment Specifications

Altitude	
Relative Humidity	5°C~40°C,0%~70%RH.
Operating Temperature Range	5°C~40°C,0%~70%RH.
Storage Temperature Range	-10°C~60°C,0%~70%RH.

Approvals

Declarations	RoHS Certificate of Compliance
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Accessories Includes

Item Name	Qty
user manual	1

Similar Products

Stock No.	RS# 1558901	RS# 1232220	RS# 1232221	RS# 1232222
Model Number	RS-92	ILM1332A	ILM1335	ILM 1337
Sensor Type	Silicon Photo Diode	Photodiode	Photodiode	Photodiode
Display Type	3-3/4 digit LCD with high speed 40 segment bar graph	3-1/2 digit LCD	3-3/4 digit LCD with bargraph indication.	3-1/2 digit LCD indication
Features	Accurate, Data Hold, Instant Response	Accurate, Data Hold, Instant Response	Accurate, Auto Power Off Function, Data Hold, Instant Response, Peak Hold Function, Relative Function	Accurate, Data Hold, Instant Response
Measuring Range	20, 200, 2000, 20000, Lux 20, 200, 2000, 20000 fc (1 fc = 10.76 Lux)	200/2000/20000/200000 Lux	40.00Lux, 400.0Lux, 4000Lux, 40.00Klux, 400.0Klux, 40.00fc, 400.0fc, 4000fc, 40.00Kfc. (1 fc = 10.76 Lux)	20, 200, 2000, 20000, Lux 20, 200, 2000, 20000 fc (1 fc = 10.76 Lux)
Accuracy	$\pm 5\%$ rdg ± 10 dgts. (<10,000Lux), $\pm 10\%$ rdg ± 10 dgts. (>10,000Lux)	$\pm 3\%$ rdg $\pm 0.5\%$ f.s. (Calibrated to standard incandescent lamp, 2856 K)	$\pm 3\%$ ± 0.5 Digit %	$\pm 3\%$ rdg ± 5 dgt (Calibrated to standard incandescent lamp, 2856 K)
Resolution	0.1 lx	0.1 Lux	0.01 fc, 0.01 lx	0.01 Lux , 0.01 fc
Measurement Rate	2 times/sec of analog bar-graph indication; 2 times/sec of digital display.	Approximately 2 time/sec	Digits : 1.3/sec Analog : 13.3/sec	Approximately 2.5 time/sec
Repeatability		$\pm 2\%$		
Spectral Response		CIE Photopic. (CIE human eye response curve)		
Spectral Accuracy		CIE V_{λ} function $f' - 1 \leq 6\%$		
Temperature Characteristics	0°C - 50°C	0°C - 40°C	0°C - 40°C	0°C - 50°C
Dimensions	206L x 54W x 35.6H(mm)	150x72x33mm	150x72x35mm	150x72x35mm

Features

- Overload Indication: LCD screen will show "OL" on the upper left-hand corner.
- Low battery indication "  ".
- Sampling Rate : 2.5 times per second for digital display.
- Spectral response close to CIE luminous spectral efficiency.
- Cosine Angular corrected.
- According to JIS C1609: 1993 and CNS 5519 general A class Specifications.
- Measuring lights source: LED white light and all visible light
- Measuring intensities of illumination in Lux or footcandles .
- Many application include : Warehouses , factories, office buildings, restaurants, schools, library, hospitals, photographic, videos, parking garages, museums, art galleries, stadiums and building security.
- Data hold.
- Maximum/ Average/ Minimum Hold.
- Zero adjustment.
- Auto power off and disable function.
- Auto ranging.

Specifications

Display	4000 count, maximum display 3999	
Sensor	Silicon photodiode with filter	
Measuring Range	40, 400, 4000, 40000, 400000 Lux 40, 400, 4000, 40000 Footcandles	
Accuracy	± 3% (Calibrated to standard Incandescent lamp 2856°K and Corrected LED day while light Spectrum) 6% other visible light source	
Angle deviation from cosine	30°	± 2%
	60°	± 6%
	80°	± 25%
Power Supply	1.5V AAA*3 alkaline battery	
Dimensions	162 mm(L)*63 mm(W)*28 mm(H)	
Weight	about 250g	
Accessories	user manual	
Length of wiring for light sensor : Approx. 1.5M		

Recommended Levels of Illumination

Suitable levels of illuminance

(According to the JIS standard Z 9110-1979)

Offices, Factories

Illuminance (lux)	Place
3000 to 1500	Where such work as assembling, inspecting testing, selecting, extremely precision Visual work
1500 to 750	Assembling, inspecting, testing, selecting, precision visual work
750 to 300	Assembling, inspecting, testing, selecting and visual ordinary work
300 to 150	Wrapping and packing
75 to 30	Indoor emergency stairways

Schools

Illuminance (lux)	Place
1500 to 300	Precision drawing or drafting, precision experimenting, library
750 to 200	Classrooms, library reading rooms, Staff room, Gymnasia
300 to 75	Lecture halls, assembly room corridors, locker rooms, stairways, restrooms
75 to 30	Warehouses and emergency stairways
10 to 2	School passages