FEATURES

- Unit conversion function

- High accuracy and rapid response

- Data Hold Function

- Short rise and fall times

- Auto Power Off

RS PRO RS-92 Light Meter, 0lx to 40000lx, ±5%

RS Stock No.: 155-8901

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

Introducing the RS PRO RS-92 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 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. This light meter has also been created to be small and portable, for use on the go, wherever it is needed. The light input adjustment regardless of what angle it is being aimed at for measurement to ensure accurate reading. RS PRO light meters are professionally designed with a modern look that is still highly functional and ergonomic for the user. With the convenient and easy to use Bluetooth feature, it's easy to transfer the data to user's smart phone for further investigation and analysis at a later stage, making it an essential tool for any light measuring applications.

General Specifications

Model Number	RS-92
Sensor Type	Photodiode
Display Type	3-3/4 digit LCD
Features	Unit conversion function
Interface	Bluetooth 4.0
Applications	Lighting of streets areas/ Lighting in museums/ Monitors

Light Measurement

Measuring Range	0Lux to 40Klux / 0Fc to 4KFc
Minimum Light Level	0Lux
Maximum Light Level	40Klux
Accuracy	±5%rdg ±10dgt
Resolution	0.1Lux
Measurement Rate	2 times per second
Repeatability	±3%

Electrical Specifications

Power Source	Battery
Battery Included	Yes
Battery Type	9V NEDA 1604

Mechanical Specifications

Dimensions	205mm x 54mm x 35.6mm
Width	54mm
Depth	205mm
Height	35.6mm
Weight	173g
Casing Material	Plastic

Operation Environment Specifications

Relative Humidity	< 80% RH
Operating Temperature Range	0°C to 40°C(32°F to 104°F)
Storage Temperature Range	-10°C to 50°C(14°F to 140°F)

Approvals

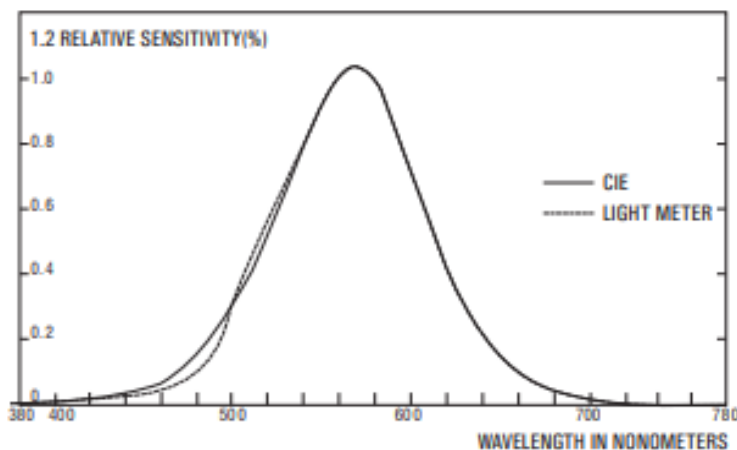| Compliance/Certifications	EN 61340-5-1:2007
Declarations	RoHS Certificate of Compliance

Technical Data

Display	3-3/4 digit LCD with high speed 40 segment bar graph.
Measuring Range	400.0 Lux, 4000 Lux, 40.00 KLux / 40.00 FC, 400.0 FC, 4000 FC
Note	1FC = 10.76 Lux, 1 KLux = 1000 Lux, 1 KFC = 1000 FC
Over range Display	LCD will show "OL" symbol
Accuracy	± 5% rdg ± 10dgts. (< 10,000Lux), ± 10% rdg ± 10dgts. (> 10,000Lux)
Repeatability	± 3%
Sampling Rate	2 times/sec of analog bar-graph indication; 2 times/sec of digital display.
Operating Temperature & Humidity	0°C to 40°C(32°F to 104°F), 0% to 80% RH.
Storage Temperature & Humidity	-10°C to 50°C(14°F to 140°F) & 0% to 80% RH.
Power Source	1 piece 9V battery.
Meter Dimensions	206L × 54W × 35.6H(mm)
Weight	173g

Spectral Sensitivity Characteristic

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

LOCATIONS		Lux	FC
OFFICE	Conference, Reception room	200 ~ 750	18 ~ 70
	Clerk office	700 ~ 1,500	65 ~ 140
	Typing	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
	Display window, Packing table	750 ~ 1,500	70 ~ 140
	Forefront of show window	1,500 ~ 3,000	140 ~ 279
HOSPITAL	Ward, Warehouse	100 ~ 200	9 ~ 18
	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