

FEATURES

- Accurate and instant response
- Data Hold Function
- Point - average function
- Over Range Display
- Data Memory And Read Function

RS PRO ILM01 Light Meter, 0.01lx to , $\pm 3\%$ ± 5 Digit

RS Stock No.: 123-2223



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

From the trusted RS PRO brand, the ILM-01 is a great value digital light meter with spectral sensitivity close to the CIE photopic standard curve. The light meter has a sensor that attaches by a flexible wire allowing you to easily take readings where you need to most. It features a 4 digit LCD dual display for quick and accurate reading of measurements, and has a stand for further convenience.

General Specifications

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|------------------------------------|--|
| Model Number | ILM-01 |
| Sensor Type | Photodiode |
| Display Type | Dual / 4-Digit LCD |
| Data Memory Capacity | 99 sets. (Direct reading from LCD display) |
| Features | Luminous intensity measurement |
| Temperature Characteristics | $\pm 0.1\%/^{\circ}\text{C}$ |
| Applications | Lighting of streets areas/ Lighting in museums/ Monitors |

Light Measurement

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|----------------------------|---|
| Measuring Range | 0.01Lux to 50.00Klux / 0.001Ftc to 5000 Ftc |
| Minimum Light Level | 0.01Lux |
| Maximum Light Level | 50.00Klux |
| Accuracy | $\pm 3\% \text{rdg} \pm 5 \text{dgt}$ |
| Resolution | 0.001Ftc |
| Measurement Rate | 5 times per second |
| Spectral Response | CIE Photopic |
| Spectral Accuracy | CIE V_{λ} function $f'1 \leq 6\%$ |

Electrical Specifications

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|-------------------------|-----------|
| Power Source | Battery |
| Battery Included | Yes |
| Battery Type | 2 AAA |
| Battery life | 100 Hours |

Mechanical Specifications

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|---------------------------------|---------------------|
| Dimensions | 150mm x 72mm x 33mm |
| Width | 33mm |
| Depth | 72mm |
| Height | 150mm |
| Weight | 320g |
| Casing Material | Plastic |
| Photosensor Cable Length | 150cm (approx.) |
| Photosensor Dimensions | 100mm x 60mm x 27mm |

Operation Environment Specifications

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|------------------------------------|----------------------|
| Relative Humidity | <80%RH |
| Operating Temperature Range | 0°C to 50°C |
| Storage Temperature Range | -10°C to 60°C <70%RH |

Approvals

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





SPECIFICATIONS

| | |
|---------------------------------------|--|
| Display | Dual display 4 digit LCD read out. |
| Measuring Range | 50.00, 500.0, 5000, 50.00Klux 5.000, 50.00, 500.0, 5000fc Auto ranging (4 step) (1 fc = 10.76 lux) |
| Overrange Display | OL is displayed |
| Resolution | 0.01 lux, 0.001 fc |
| Accuracy | ±3% rdg ±5dgt (Calibrated to standard incandescent lamp, 2856 K) |
| CIE photopic f '1 | ≤6% |
| Temperature Characteristics | ±0.1% / °C |
| Measuring Rate | Approximately 5 time/sec |
| Photosensor | Silicon photodiodes |
| Data Memory Capacity | 99 sets. (Direct reading from LCD display) |
| Operating / Storage Conditions | 0 to 50°C <80% RH -10 to 60°C <70%RH |
| Power Source | 6 pcs AAA size Battery |
| Battery Life (typical) | 100 hours |
| Photosensor Lead Length | 150 cm (approx.) |
| Photosensor Dimensions | 100x60x27mm |
| Dimension | 150x72x33mm |
| Weight | 320g |
| Accessories | Carrying case, Instruction manual, Battery |