

## Data Logging Light Meter Model R8100SD



Features TECHNICAL DATA

- Measures ambient light levels in Foot Candles or Lux
- Photo diode and colour correction filters meet
   C.I.E. spectrum specifications
- Contact temperature measurement with a type J/K thermocouple option
- Temperature is measured in °C or °F
- Real time data logger with integrated SD memory card
- User selectable sampling rate from 1 to 3600 seconds
- Easy-to-read backlit LCD display
- Data hold and Min/Max functions
- Tripod mount for long-term monitoring
- · Low battery indicator and auto shut off
- Includes detachable light sensor, sensor cover, soft carrying case & batteries

## **Specifications**

Measuring Ranges: Lux: 2,000, 20,000, 100,000

Fc: 200, 2,000, 10,000 Type K Temperature: -148.0 to 2372.0°F (-100.0 to 1300°C) Type J Temperature: -148.0 to 2192.0°F (-100.0 to 1200°C)

Accuracy: Lux:  $\pm (4\% + 2 \text{ Lux})$ 

Fc: <2,000:  $\pm$ (4% rdg.+ 2 Fc) 2,000-10,000:  $\pm$ (4% rdg.+ 20 Fc) Temp:  $\geq$ -58°F (-50°C)  $\pm$ (0.4% +

1°F (0.5°C))

 $\leq$ -58°F (-50°C) ±(0.4% + 1.8°F (1°C))

Resolution: Lux: 1, 10, 100

Fc: 0.1, 1, 10

Temp: 0.1°F (0.1°C)

Response Time: <1 second

Sensor Type: Photo diode & color

correction filter

Autoranging: Yes

Display: 5-digit LCD

Backlit Display: Yes
Data Hold: Yes
Min: Yes
Max: Yes
Auto Zero: Yes
Overrange Indicator: Yes
Datalogging Capabilities: Yes



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## **Data Logging Light Meter** Model R8100SD







Real-Time Clock and Date Stamp:

Yes Sampling Rate: Yes (1, 2, 5, 10, 30, 60, 120,

300, 600, 1800, 3600s)

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External Memory: Yes, expandable up to 16GB

with SD card (optional)

Auto Shut-off: Yes (after 10 minutes/off)

Kick Stand: Yes Tripod Mountable: Yes Low Battery Indicator: Yes

Power Supply: 6 x AA batteries or AC Adapter (optional)

Data Output: Yes (RS-232)

Battery Life: Sampling Time Dependent

CE **Product Certifications:** 

32 to 122°F (O to 50°C) Operating Temperature: 14 to 140°F (-10 to 60°C) Storage Temperature:

Operating Humidity

Range: 10 to 80%

7 x 2.7 x 1.9" (117 x 68 x 45mm) Dimensions:

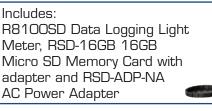
Weight: 17.3oz (489g)

## **R8100SD-KIT**

Data Logging Light Meter with Power Adapter and SD Card

Includes:

R8100SD Data Logging Light Meter, RSD-16GB 16GB Micro SD Memory Card with adapter and RSD-ADP-NA









| Model         | Description                                                |
|---------------|------------------------------------------------------------|
| R8100SD       | Data Logging Light Meter                                   |
| R8100SD-PROBE | Replacement Probe for R8100SD                              |
| R2920         | Surface Thermocouple Probe                                 |
| R2930         | Right Angle Thermocouple Probe                             |
| R2940         | Air/Gas Thermocouple Probe                                 |
| R2950         | Immersion Thermocouple Probe                               |
| R2960         | Needle Tip Thermocouple Probe                              |
| TP-01         | Beaded Thermocouple                                        |
| R1500         | Tripod                                                     |
| RSD-ADP-NA    | Power Supply, 110V                                         |
| RSD-ADP-EU    | Power Supply, 220V                                         |
| CA-05A        | Soft Carrying Case                                         |
| R8888         | Hard Carrying Case                                         |
| SD-4GB        | 4GB Class 4 SDHC Memory Card                               |
| RSD-16GB      | 16GB Micro SD Memory Card<br>w/Adapter                     |
| R8100SD-KIT   | Data Logging Light Meter with Power<br>Adapter and SD Card |
| R8100SD-NIST  | Data Logging Light Meter with NIST                         |