

Features

- 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: ±(4% + 2 Lux) Fc: <2,000: ±(4% rdg.+ 2 Fc) 2,000-10,000: ±(4% rdg.+ 20 Fc) Temp: ≥-58°F (-50°C) ±(0.4% + 1°F (0.5°C)) ≤-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 |

TECHNICAL DATA



Continued...



TECHNICAL DATA

| | |
|---------------------------------|---|
| Real-Time Clock and Date Stamp: | Yes |
| Sampling Rate: | Yes (1, 2, 5, 10, 30, 60, 120, 300, 600, 1800, 3600s) |
| 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 |
| Product Certifications: | CE |
| Operating Temperature: | 32 to 122°F (0 to 50°C) |
| Storage Temperature: | 14 to 140°F (-10 to 60°C) |
| Operating Humidity Range: | 10 to 80% |
| Dimensions: | 7 x 2.7 x 1.9" (117 x 68 x 45mm) |
| 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 AC Power Adapter



| 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 w/Adapter |
| R8100SD-KIT | Data Logging Light Meter with Power Adapter and SD Card |
| R8100SD-NIST | Data Logging Light Meter with NIST |