REED INSTRUMENTS

Data Logging Light Meter
Model R8100SD

CERTIFICATION TRACEABLE AVAILABLE!

WARRANTY 1 YEAR WARRANTY

TECHNICAL DATA

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

REED

HOLD

LUX

425

Light Meter

☀ POWER   HOLD   REC

UNIT ▲   FUNCTION ▼

ZERO

SET   LOG

TIME   ENTER

SD Series Data Logger

SD™   R8100SD

Continued…

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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)
SD Card Class Compatibility:	Class 4
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