



Light Meter

with Excel-Formatted Data Logging SD Card

Accurately Measures Light Intensity in Lux or Foot-Candles
Using Three Automatically Switched Full-Scale Ranges



No. DLM112SD

Applications:

- OSHA compliance
- Industrial/commercial photography/videography
- Construction
- Engineering
- Surveillance/security



- The law requires the owner of a loading dock to provide a **minimum** of 1 foot candle illumination
- Defendant's loading dock fell **far below** OSHA's minimum lighting requirement
- Defendant **violated** OSHA's minimum illumination requirement and therefore Defendant's violation is negligent

An OSHA Citation



Industrial Photography



This instrument's unique feature is its patented technique for storing sampled data in Excel format on removable SD memory cards

Patented Technology

Slno	Date	Time	Value	Unit	Value	Unit
1	2009/6/8	15:14:54	663	LUX		
2	2009/6/8	15:14:55	666	LUX		
3	2009/6/8	15:14:56	663	LUX		
4	2009/6/8	15:14:57	663	LUX		
5	2009/6/8	15:14:58	666	LUX		
6	2009/6/8	15:14:59	659	LUX		
7	2009/6/8	15:15:00	664	LUX		
8	2009/6/8	15:15:01	664	LUX		
9	2009/6/8	15:15:02	664	LUX		
10	2009/6/8	15:15:03	664	LUX		
11	2009/6/8	15:15:04	664	LUX		
12	2009/6/8	15:15:05	667	LUX		
13	2009/6/8	15:15:06	674	LUX		
14	2009/6/8	15:15:07	674	LUX		

Typical Excel Data



Typical Excel Plotted Data

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Light Meter with Excel-Formatted Data Logging SD Card

Features:

- Includes light probe
- Measures light intensity within three automatically switched full-scale ranges: 2,000 lux, 20,000 lux and 100,000 lux (200 ft-cd, 2,000 ft-cd and 10,000 ft-cd)
- Selectable lux or foot-candle units
- Displays maximum and minimum readings
- Performs real-time automatic data logging at sampling time settable from 1 second to 1 hour
- Also supports manual logging and changing of card storage location
- Big (2.5 diagonal) front-panel green backlit LCD is easy to read
- Auto power off function

Included Accessories:

- Hard carrying case
- Light probe with protective cover (General P/N P112SD)
- 2 GB SD memory card
- User's manual

Optional Accessories:

- 9VDC adapter for 110V power supply (General P/N AC1)
- "K" Type thermocouples
General P/N TPK500 (-50° to 500°F)
General P/N TPK05 (-40° to 562°F)
General P/N TPK03 (-40° to 950°F)
- SDRD1 - SD Card Reader



No. DLM112SD

Specifications:

Embedded Microcontroller: Custom one-chip LSI device

Display Type: LCD with green backlight

Display Size: 2.05 x 1.5 in. (52 x 38mm)

Full-Scale Ranges:

- 0 to 1,999 lux (0 to 186 ft-cd)
- 1,800 to 19,990 lux (167 to 1,860 ft-cd)
- 18,000 to 99,900 lux (1,670 to 9,290.7 ft-cd)

Measurement Accuracy:

- ± 4% of full-scale reading + 2 digits for all lux readings and ft-cd readings at 200 ft-cd full-scale (f.s.)
- ± 4% of f.s. reading + 2 ft-cd at 2,000 ft-cd f.s.
- ± 4% of f.s. reading + 20 ft-cd at 20,000 ft-cd f.s.

Measurement Resolution:

- 1 lux at 2,000 lux f.s.
- 10 lux at 20,000 lux f.s.
- 100 lux at 100,000 lux f.s.
- 0.1 ft-cd at 200 ft-cd f.s.
- 1 ft-cd at 2,000 ft-cd f.s.
- 10 ft-cd at 10,000 ft-cd f.s.

Storable/Recallable Readings: Maximum, minimum

Data Logging Sampling Time: 1 second to 1 hour

SD Card Capacity: 1 GB to 16 GB

Settable Parameters: Date, time, auto power off, beep sound, temperature unit (°F or °C), sampling time, thermocouple type (K or J), decimal point or comma

Operating Temperature: 32° to 122°F (0° to 50°C)

Operating Relative Humidity: 0 to 85%

Power Consumption:

- 6.5 mADC (normal operation, with backlight off and SD card not saving data)
- 30 mADC with backlight on

Dimensions of Meter:

6.97 x 2.68 x 1.77 in. (177 x 68 x 45mm)

Weight of Meter: 1.08 lb. (489g)

Power Source:

Six "AA" batteries or optional 9-VDC AC adapter



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