TECHNICAL DATA MODEL DLM-1000

1. SENSOR

Model DLM-1000 "B" UV Sensor..... 320-400 nm (µW/cm²)
Model DLM-1000 "C" Visible Sensor..... 380-700 nm (foot-candles)
Model DLM-1000 "L" Visible Sensor..... 380-700 nm (Lux)
(Photometric Response)

Calibration: Sensors are calibrated using line sources, or if more appropriate for the application, wide bandwidth sources. Calibration is within 5% of a working standard, traceable to the NATIONAL INSTITUTE OF STANDARDS and TECHNOLOGY, formerly NBS.
Temperature coefficient .....±0.25%/°C.

2. READOUT UNIT

Display 13mm..... (.0.5 in.) constant fluorescing Liquid Crystal Display (LCD)
Sampling time ..... 0.4 seconds

Electrical Specifications:

Range	Resolution	Accuracy 25º ± 5º C	Units
0-1999	1	± 2% (+2 digits)	FC or Lux
0-19990	10	± 2% (+2 digits)	µW/cm²

Measurement Units

Spectral Range	Model	Units
320 - 400 nm	DLM-1000 "**B**" UV sensor	µW/cm²
380 - 700 nm	DLM-1000 "**C**" visible sensor	FC
380 - 700 nm	DLM-1000 "**L**" visible sensor	Lux

3. POWER REQUIREMENT

Battery Operation ..... One 9-volt battery provided
Current Drain..... 2 mA (approx)
Battery Life..... 150 - 200 hours

4. TEMPERATURE RANGE

Operation..... 0° - 50° C (32° - 122°F)
Storage ..... 10°C - 50º C (14° - 122°F)

5. HUMIDITY RANGE

0 to 100% R.H. non-condensing

6. DIMENSIONS

Readout Unit..... 108mm x 73mm x 23mm (4.3in. x 2.9in. x 0.9in.)
Sensor Head..... 70mm x 52 mm x 17 mm (2.8in. x 2.0 in. x 0.7 in.)

7. WEIGHT

Readout Unit..... 160 g (0.36 lb.)
Sensor ..... 90 g (0.20 lb.)

8. USAGE

"B" UV sensor is used to measure blacklight output UVA.

"C" visible sensor is used to measure incandescent light output and to test for visible light which may be emitted by a Blacklight. This sensor is calibrated to read in foot-candles.

"L" visible sensor is the same as the "C sensor, except it is calibrated to read in Lux. (Optional)

Operation

1. Slide the "POWER" switch to the "ON" position.
2. Turn the lamp on or apply power to the light source being measured.
3. Place the sensor where the radiance/luminance is to be measured.
4. The value of the radiance/luminance will be indicated on the display. If at any time only a "1" appears in the left hand display position, then the measurement is out of range. Indicated values are as follows:

   Lux or foot-candles 1 x the display reading
   Microwatts/cm² 10 x the display reading

Calibration

The visible and UV sensor radiometer should be returned to the factory every six months for recalibration or a routine check-up. The recommended six month calibration is based upon normal usage of intermittent readings. If the sensors are used continuously, recalibration should be performed more often. Visible sensors are calibrated to accurately read incandescent light sources, unless a fluorescent light calibration is requested.

For further information please contact:

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