GOULD-BASS
A Total Concept Company
NDT DIVISION

# Model DLM-1000

## STATE OF THE ART LIGHT MEASURING INSTRUMENTS

## FEATURES / BENEFITS

- **Meets AMS, ASTM, & Mil Standards**
- **NIST Traceablilty assures meter accuracy**
- **Includes visible light and black light sensors**
- **UV sensor reads accurately 320-380 nm range**
- **Visible light Lux or Foot-candle sensor option reads accurately 380-700 nm range**
- **Visible sensor corrected to CIE curve**
- **Constantly fluorescing LCD - DigiGlo Readout**
- **Auto zeroing display requires no adjustment**
- **Durable polymer case for rugged NDT use**
- **Low battery indicator**
- **Accuracy ± 5%**



**The Gould-Bass DLM-1000 Digital Radiometer is a portable, 3-1/2 digit instrument that measures either blacklight intensity in the spectral range of 320-380 nanometers in microwatts per square centimeter or visible light intensity of 380-700 nanometers (photometric response) in Lux or foot-candles, depending upon the sensor selected.**

**The latest LSI circuit design and display technology is used to achieve the lowest possible component count. This, in turn, assures reliability, accuracy, stability, and rugged dependability. In combination with its functional and aesthetic design, the Gould-Bass DLM-1000 is the easiest to handle blacklight, and visible light measuring instrument available today. The "DigiGlo" LCD display provides constant fluorescent illumination with no battery draw.**

## Easy to Operate

- **Simply slide the power switch to the "On" position**
- **Place the sensor where the irradiance / illuminance is to be measured**
- **The irradiance / illumination is indicated on the DigiGlo LCD**
  **Lux or foot-candles are indicated at 1 x the display reading**

**Microwatts/cm2 are indicated on the display reading**



## Technical Data

| Model Number | DLM-1000 Buy Now! | DLM-1000L (Lux) Buy Now! |
|---|---|---|
| Part Number | N410409001 | N410410001 |
| Sensors Included | N410400001 "B" UV Sensor<br>N410401001 "C" White Light (Foot candles) | N410400001 "B" UV Sensor<br>N410397001 "D" White Light (Lux) |
| Readout Display | 13mm (0.5 in.) Constant fluorescing | 13mm (0.5 in.) Constant fluorescing |
| Readout Sampling Time | 0.4 Seconds | 0.4 Seconds |
| Range | 0-1999 Foot candles<br>0-19990 microwatts/cm2 | 0-1999 Lux<br>0-19990 microwatts/cm2 |
| Spectral Range | "B" UV Sensor.....320 - 380 nm<br>"C" FC Sensor.....380 - 700 nm | "B" UV Sensor.....320 - 380 nm<br>"D" Lux Sensor.....380 - 700 nm |
| Power Requirement | One 9-volt battery (provided) | One 9-volt battery (provided) |
| Battery Life | 150 - 200 Hours<br>*Current drain 2 mA(approx.)* | 150 - 200 Hours<br>*Current drain 2 mA(approx.)* |
| Temperature Ranges:<br>- Operation<br>- Storage | <br>0 - 50 Deg. C *(32 - 122 Deg. F)*<br>10- 50 Deg. C *(14 - 122 Deg. F)* | <br>0 - 50 Deg. C *(32 - 122 Deg. F)*<br>10- 50 Deg. C *(14 - 122 Deg. F)* |
| Humidity Range | 0 to 100% R.H. Non-condensing | 0 to 100% R.H. Non-condensing |
| Dimensions:<br>- Readout Unit Only<br>- Sensor Head Only<br>- DLM-1000 in Polymer Case | <br>108mm x 73mm x 23mm<br>70mm x 52 mm x 17 mm<br>250mm x 190mm x 70mm | <br>108mm x 73mm x 23mm<br>70mm x 52 mm x 17 mm<br>250mm x 190mm x 70mm |
| Weight | 454 g (1 lb.) | 454 g (1 lb.) |
| Recommended Calibration Interval | The DLM-1000 radiometer should be returned to the factory every six months for recalibration and routine inspection service. The recommended six month interval 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. | |



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