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1. General Description

The hand held Model 150 Digital Intensity Meter is designed to precisely measure UV and Deep UV (DUV) radiation. The unit includes a dual-sensor probe containing industry accepted spectral regions (UV365 and UV400) which simulate the spectral responses of negative and positive resist. DUV sensors are also available.

2. Applications

Model 150 is used primarily for the measurement of intensity mW/cm and beam uniformity of UV/DUV output. Such lightsources are principally used in the manufacturing process of integrated circuits, thin film hybrids, and printed circuit boards.

3. Features

a. LCD Display

b. Interchangeable, calibrated spectral probes

c. Operates on 9-volt transistor battery with typical life greater than 150 hours

d. Intensity scales: 2W/cm² (2,000 mW/cm²) or 200mW/cm².

4. Specifications

NIST Traceability Better than $\pm 3\%$ Repeatability Better than $\pm 1\%$

Accuracy Electrical $\pm 1\%$; Linearity $\pm 0.1\%$; Optical

Calibration $\pm 5\%$ absolute; $\pm 1\%$ relative

Intensity Scales Channel A: 20mW/cm² and 200mW/cm²

Channel B: 20mW/cm² and 200mW/cm²

Circuitry Solid State CMOS integrated circuitry
Display Liquid Crystal 3.5 digit for intensity values,

Low battery

Controls ON/OFF, CHANNEL SELECT, INTENSITY

SCALE, HOLD DISPLAYED INTENSIY

Spectral Responses Standard Probe (dual channel) Channel

A=365nm, Channel B=400nm

Optional Probes Available in Deep UV (220,248,254,260nm),

Mid UV (280 and 310nm), UV (365, 400 & 436nm)

Power Requirements One standard 9V transistor battery

Dimensions 6.0" L, 2.75" W, 1.1" D

Weight 11.5 ounces

5. Maintenance

The Model 150 requires no user maintenance other than battery changes. "Low Bat" will be displayed whenever a battery change is required.

ABM recommends yearly calibration checks to maintain NIST tractability.