



RADIOMETER



DESCRIPTION

The radiometer is an easy-to-use instrument that measures the light intensity of black light lamps (Wood's lamps). The measurement is expressed directly in $\mu\text{W}/\text{cm}^2$, as required by regulations.

USER INSTRUCTIONS

STEP-BY-STEP DESCRIPTION

1. Radiometer's preparation

- **Verify calibration:** ensure that the radiometer has a valid and traceable calibration certificate, generally to be renewed every 12 months.

2. Measuring UV intensity

- **Light source configuration:** place the UV lamp at the specified distance from the sensor head, generally 380 mm (approximately 15 inches), in accordance with international standards such as ASTM E3022, ROLLS-ROYCE RRES 90061, and AIRBUS AITM6-1001.



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Controlli Non Distruttivi - Non Destructive Testing

- **Place the sensor:** place the radiometer's sensor head on a flat surface (perpendicular) to the UV beam. Move the sensor until the point of maximum intensity is found.
- **Register the reading:** register the measurement in microwatts per square centimeter ($\mu\text{W}/\text{cm}^2$). The value must meet the minimum intensity specified by the reference standard.

3. Results' documentation

- **Data recording:** record all readings in the inspection report, along with equipment serial numbers, calibration expiration dates, and other relevant information.
- **Compliance assurance:** verify that UV intensity complies with reference standards (e.g., ISO, ASTM, or MIL-SPEC).

4. Monitoring the light source performance over time

- **Monitoring lamp deterioration:** some NDT procedures require periodic tests to verify the UV lamps performance throughout their life cycle. A radiometer can be used to monitor the deterioration of light output and identify when a lamp needs to be replaced.

AVAILABLE MODELS

PART NUMBER	DESCRIPTION	REF.
05089700	Radiometer DM 365 XA	97M



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