

ACCU-CAL™ 50 RADIOMETER

Consistent UV curing requires periodic monitoring of UV intensity or dose. The ACCU-CAL™ 50 radiometer is simple to operate and offers repeatable measurement of UV light. The ACCU-CAL™ 50 can measure UV light emitted from lightguides (3 mm, 5 mm, and 8 mm), UV flood systems, and UV conveyors. With a spectral sensitivity from 320 to 395 nm (UVA), the ACCU-CAL™ 50 measures intensities from 1 mW/cm² to 40 W/cm². A specially designed photo-sensor assembly protects the photo-sensor from the high temperatures sometimes associated with today's high intensity UV spot lamps.

♦ Simple to Operate ♦ Set Screw Locks Lightguide in Place ♦ PTB and NIST Traceable



ACCU-CAL™ 50 for measuring floods and conveyors only PN 39561



ACCU-CAL™ 50 for measuring spots, floods, and conveyors

THREE REASONS TO USE A UV RADIOMETER

- Maintaining a Light Curing Process A radiometer measures whether a light curing system is providing intensity above the "bulb change" intensity. Radiometers provide the same monitoring control for light curing processes that thermometers provide for thermal processes.
- → Providing a Worker Friendly Light Curing Process The ACCU-CAL[™] 50 is sufficiently sensitive to measure the intensity of stray or reflected UV light (as little as 1 mW/cm²). DYMAX recommends that worker UVA exposure not exceed 1 mW/cm². For reference, UV (320-395 nm) intensity on a sunny day can range from 2-6 mW/cm².
- Measuring Transmission Rates Through Substrates A radiometer can be used to measure the transmission rates of various wavelengths through substrates that absorb UV and/or visible light. To assure an effective curing process it is critical to measure the light intensity reaching the resin below the intervening substrate.

SPECIFICATIONS

Spectral Sensitivity	320 to 395 nm	
Intensity Range	1 mW/cm ² to 40 W/cm ²	
Resolution	Intensity (1 mW/cm ² ; to three significant digits) Dose (1 mJ/cm ²)	
Calibration Period	12 months	
Operating Temperature Ranges	Optometer: +5 to +40°C Detector: 120°C continuous, Peak 200°C	
Measurement Modes	Intensity (mW/cm² and W/cm²) Peak Intensity (mW/cm² and W/cm²) Dose (J/cm²)	
Light Sources	Lightguides (3 mm, 5 mm, and 8 mm) Floods/Conveyors	
Power Supply	Two (2) AA batteries	
Battery Life	250 hours (automatic shutoff after 1 hour)	
Sensor Dimensions	Photo-Sensor Diameter = 9 mm Diameter = 37 mm Thickness = 8 mm Cable Length = 1 M	
Meter Dimensions	120 mm (Length) x 65 mm (Width) x 23 mm (Thickness)	

RADIOMETERS and ACCESSORIES

Product	Part Number	Description
ACCU-CAL [™] 50 for Flood Lamps and Conveyors	39561	Complete radiometer (without lightguide adapters or lightguide simulator*); includes storage/carrying case
ACCU-CAL [™] 50 for Spot and Flood Lamps and Conveyors	39560	Complete radiometer with lightguide adapters (3 mm, 5 mm, and 8 mm) and lightguide simulator*; includes storage/carrying case
Flood to Spot Adapter Kit	39554	Kit includes three lightguide adapters (3 mm, 5 mm, and 8 mm) and a lightguide simulator*
3 mm Lightguide Adapter	39556	Fits 3 mm ID lightguides (5 mm OD)
5 mm Lightguide Adapter	39557	Fits 5 mm ID lightguides (7 mm OD)
8 mm Lightguide Adapter	39558	Fits 8 mm ID lightguides (10 mm OD)
5 mm Lightguide Simulator	38408	5 mm lightguide simulator with a standard D connection

^{*}A lightguide simulator is used to measure direct spot lamp intensity (required to calculate lightguide transmission)

For further assistance with adhesive and equipment selection, contact your DYMAX Applications Engineer.

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Please note that most dispensing and curing system applications are unique. DYMAX does not warrant the fitness of the product for the intended application. Any warranty applicable to the product, its application and use is strictly limited to that contained in DYMAX's standard Conditions of Sale. DYMAX recommends that any intended application be evaluated and tested by the user to insure that desired performance criteria are satisfied. DYMAX is willing to assist users in their performance testing and evaluation by offering equipment trial rental and leasing programs to assist in such testing and evaluation. Data sheets are available for valve controllers or pressure pots upon request

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