

SpotCure® UV Intensity Meter



Features

- Measures UV intensity up to 20W/cm² (Standard Range) or 100W/cm² (Extended Range)
- Compact size, portable
- Accepts multiple light guide sizes
- Totally self-contained, battery-powered

Applications

- Monitor UV spot curing system performance
- Measures individual UV lamp performance
- Measure light guide degradation
- Optimize light guide positioning
- Determine proper UV intensity required for curing any material
- Meet ISO 9000 requirements



Introduction

As UV spot curing technology has evolved, it has become increasingly important to establish a method of measuring system performance. The EIT SpotCure UV Intensity Meter is an easy, portable, effective method of quantifying UV output.

The EIT SpotCure UV Intensity Meter is a self-contained, electro-optic instrument designed to measure and display the intensity emitted by a UV curing system. Degradation of UV lamps, light guides, and reflectors can cause decreases in intensity and create curing problems. The EIT SpotCure UV Intensity Meter is designed to provide the operator with instant feedback as to the performance of the spot curing system.

Configuration

The EIT SpotCure UV Intensity Meter is totally portable, self-contained, and battery-operated using a special lithium battery stick for extremely long life - in excess of 100,000 readings! The measurement head which contains the optics, is attached to one end of the cylindrical instrument. Light guide adapters that fit into the measurement head are available to fit most size light guides. An EIT SpotCure UV Intensity Meter can be configured to read one of the following UV transmission bandwidths: 250-260nm, 280-320nm, 320-390nm or 395-445nm.

Operation

The portable, EIT SpotCure is simple to use. Its compact, flashlight-like shape (4.60" long by 1.74" diameter) can comfortably be gripped in one hand.

In operation, the instrument is gripped in one hand while the light guide is inserted with the other hand. Once a spot curing system's light wand is inserted into the measurement head, the "START" switch is depressed and a measurement is frozen and can be viewed on the LDC display. It will be held for approximately 3 minutes until the display time out or until the "START" switch is depressed again. Adapters insert into the measurement head to accommodate the standard light wands on the market. This flexibility allows the instrument to be used in a variety of monitoring applications.

Solutions
are our
business

EPOXY AND EQUIPMENT TECHNOLOGY PTE LTD
No 51 Bukit Batok Crescent #07-04 Unity Centre Singapore 658077
Tel: (65) 6 899 3839 Fax: (65) 6 899 3536 Email: info@eet.com.sg
Website: www.eet.com.sg
Malaysia | Thailand



Short, simple operation instructions are printed on the outside of the instrument. The EIT SpotCure UV Intensity Meter is designed to withstand the rugged UV environment and extremely high intensities that can be associated with UV spot curing. IT can monitor UV intensities up to 20W/cm² for the standard version and 100W/cm² in the Extended Range version.

Specifications

| | | |
|-----------------------|--|--|
| Intensity Range | Standard Version 0-19.99W/cm ² | Extended Range Version 0.99.9W/cm ² |
| Resolution | Standard Version 10mW/cm ² | Extended Range Version 100mW/cm ² |
| Accuracy | +/- 5% typical, +/- 10% maximum | |
| Display | 3 ½ digit LCD | |
| Power Source | Lithium battery stick | |
| Battery Life | 12,500 hours continuous operation (over 100,000 readings) | |
| Overall Dimensions | 6.40”L x 1.74” Diameter (16.26cm x 4.42cm); Measurement head - 2.13” Diameter(5.14cm) | |
| Weight | 12.8oz (358 grams) | |
| Operating Temperature | 0 - 70°C | |
| Display Time | 2.5 to 5 minutes | |
| Spectral Ranges | 250-260nm (UVC), 280-320nm(UVB), 320-390nm(UVA), or 395-445nm(UVV) | |
| Case materials | Aluminum, polyester, quartz | |

*Specifications subject to change

Ordering Information

Model SP254 (250-260nm)
Model SP313 (280-320nm)
Model SP365 (320-390nm)
Model SP405 (395-445nm)

Solutions
are our
business

EPOXY AND EQUIPMENT TECHNOLOGY PTE LTD
No 51 Bukit Batok Crescent #07-04 Unity Centre Singapore 658077
Tel: (65) 6 899 3839 Fax: (65) 6 899 3536 Email: info@eet.com.sg
Website: www.eet.com.sg
Malaysia | Thailand