

# MicroCure™ Radiometer

Ultra-compact UV measurement instrument designed for determining cure energy in web, 3-D and other confined UV environments



With a data collection instrument measuring only 1.30" by 1.0", the **MicroCure™ Radiometer** is ideal for inaccessible curing environments such as web printers, bottle and container decorators, and compact disc coaters. Directly affix this ultra-compact electro-optic device to almost any workpiece to accurately measure UV dosage under normal operating conditions.

In web press applications, MicroCure™ passes through a UV curing station and is removed prior to reaching the print station location. As the measurements are linear, the web can be run at 300 feet/minute and slowed to 30 FPM, and the resultant dosage readings divided by ten.

Equipped with an adhesive-backed transport pad and pocket, the MicroCure™ adheres directly to any item. This pad will adhere to the web even while traveling vertically and/or while travelling at high speeds. In fact, MicroCure's high sampling rate of 2000 samples per second ensures that measurements taken at rapid web speeds will be accurate. Due to the radiometric instrument's extremely small surface area and very low profile (only 0.25" high), MicroCure™ can actually travel around idler rollers.



For applications not requiring adhesion, the unit can be inserted directly into a can, cup or tube. Compact disc manufacturers who screen and/or coat CDs can put MicroCure™ into one of the CD "nests" when measuring total UV dosage against production parameters.

MicroCure™ is easy to use. There are no wires or connectors. Since it's always "on", there are no switches or buttons to push. Inserting the unit into the DataReader awakens the MicroCure from "sleep mode", clears any previously stored data, and resets the unit for a new dosage measurement. After the reading, simply push the "Select" button and check the UV dosage. This reading remains stored until the "Reset" button is pushed.

#### Features:

- Extremely small size: 1.30 x 1.0" (33.0mm x 25.4mm)
- Low profile: 0.25" high (6.6mm)
- Measures total UV dosage in Joules/cm<sup>2</sup>
- Ideal for wide & narrow web, flexo label, container decorating, CD printing
- High sample rate (2000 per second)

#### Applications:

- Measure dosage in demanding applications (e.g. flexo)
- Measure UV curing system performance
- Determine lamp efficiency
- Establish UV level for proper curing

## 24-HOUR PRODUCT SERVICES

Internet: [www.uvprocess.com](http://www.uvprocess.com)

E-mail: [info@uvps.com](mailto:info@uvps.com)

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## MICROCURE SPECIFICATIONS:

### Range

- Spectral Response: UVA (320-390nm)
- Sample Rate: 2000 per second
- Total Energy: 0 to 250 Joules/cm<sup>2</sup>

### Accuracy

- Spatial Response: Approximately cosine
- Temperature Range: 0-70°C internal. Tolerates much higher external temperatures for short periods
- Power Saving Mode: Approx. 4 minutes after last UV exposure
- Batteries: Non-replaceable lithium cells
- Battery Life: 200 readings with typical use OR 1 year (whichever comes first)
- Dimensions: 1.30"L x 1.0"W x 0.25"H (33.0x25.4x6.4mm)
- Weight: 0.33oz (9.4 grams)

### MicroCure DataReader

- User Interface: Push button switches allow user to display data or reset the unit
- Dimensions: 5.50"L x 4.25"W x 1.0"H (139.7 x 107.9 x 25.4mm)
- Weight: 11.75 oz (333.11 grams)
- Package Material: Stainless, aluminum, and delrin
- Battery: User changeable 9V battery

### Options

- Web Applicator
- ROLER (Rapid Online Equipment Removal)
- Double-Sided Adhesive Tape
- Transport Pads

Item No.	Description
M007-074	MICROCURE RADIOMETER

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