

EIT RADIOMETER

MICROCURE® / DATAREADER®

Introduction



The **MicroCure®** is a compact, **single-band UV radiometer** developed by **EIT 2.0 LLC**, designed for small or hard-to-reach UV curing environments. It measures both **energy density (J/cm²)** and **peak irradiance (W/cm²)**, making it ideal for **quality control in tight or high-temperature spaces**.

The **DataReader** is a **lightweight**, portable device used to activate, read, and display data from the MicroCure® UV radiometer. It **enables users to toggle** between **irradiance (W/cm²)** and **energy density (J/cm²)** readings in real-time.

System Components

- MicroCure® UV Radiometer
- Small, battery-powered sensor for measuring UV exposure.
- MicroCure® DataReader
- Portable handheld unit used to activate and read data from the MicroCure sensor.

Key Features

Feature	Description
Compact Size	Tiny form factor (33 x 24.13 x 6.35 mm) fits into tight curing environments.
Measurement	Records energy density (J/cm²) and peak irradiance (W/cm²).
Fast Sample Rate	2048 samples per second (Smooth OFF mode) for high-speed UV event detection.
Toggle Display	DataReader toggles between irradiance and energy density.
Limited Use	200 readings or 1 year of operation (whichever comes first).
Timeout Function	Auto-sleep after 4 minutes without UV exposure.
Accuracy	±7% typical at 25°C with NIST-traceable calibration.
Activation	DataReader RESET button activates unit for data collection.
Display	4-digit LCD on DataReader shows real-time and stored readings.

Spectral Response & Dynamic Ranges

Only one UVA range is available, chosen at time of order:

Model	Range	Description
10 W	500 mW/cm² – 10 W/cm²	For high-power systems
2 W	100 mW/cm² – 2 W/cm²	For standard systems
200 mW	10 mW/cm² – 200 mW/cm²	For low-intensity systems

Applications

- Narrow conveyor curing (e.g. credit card printing)
- Small object/container curing (bottles, tubes)
- Semiconductor batch processes
- Medical device curing (e.g. catheters)
- Printing (digital, pad)
- Automotive parts (headlamps, dashboards)
- Furniture and wood molding curing
- Flexible light guide systems

Specifications

Spec	MicroCure	DataReader
Size	33 x 24.13 x 6.35 mm	139.7 x 108 x 36.8 mm
Weight	9.4 g	333.11 g
Material	Plated Aluminum / Nylon / RoHS	Steel, nylon, polycarbonate
Display	—	4-digit LCD
Battery	Permanent lithium (200 readings or 1 year)	9V user replaceable
Operating Temp	15–70°C	0–70°C
Sampling	2048 Hz	—
Accuracy	±7% typical	—

**Specifications are subject to change without notice.*

DataReader Key Features

Feature	Description
Read & Display	Retrieves and shows data collected by the MicroCure® sensor
Display Type	4-digit LCD with resolution to 0.001 W/cm² or J/cm²
Toggle Function	“SELECT” button switches between energy and irradiance values
Activation	“RESET” button starts active data collection from the MicroCure
Reading Count	Shows how many readings have been taken (“r 123”)
Auto Shutoff	Powers down after 30 seconds of inactivity
Battery Status	Low battery indicator displayed on screen
Universal Use	Compatible with all MicroCure® units
User-Friendly	Simple push-button interface for field or lab use

Specifications

Spec	Value
Display	4-digit LCD
Battery	9V (user-replaceable, alkaline or lithium)
Battery Life	Long-lasting, with low-power design
Timeout	30 seconds after last button press
Operating Temperature	0–70°C
Dimensions	5.77” × 4.38” × 1.45” (139.7 × 108 × 36.8 mm)
Weight	11.75 oz (333.11 grams)
Materials	Steel, nylon, polycarbonate (RoHS compliant)

**Specifications are subject to change without notice.*

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