

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

Product information

Updates on UV Process Supply products

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ITEM	PART NO.
VersaProbe standard package (Standard package includes UV-A+B probe.)	M007-092
Individual UV-A Remote Probe	M007-093
Individual UV-B Remote Probe	M007-094

Yearly Calibration (NIST Traceable) service is also available.

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UV PROCESS SUPPLY, INC.

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Chicago, IL 60614  
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UV PROCESS SUPPLY, INC.



RADIOMETER DOSIMETER

A+B (280 - 400nm)

A (320 - 400nm)

B (280 - 320nm)



  
UV PROCESS SUPPLY, INC.

[WWW.UVPROCESS.COM](http://WWW.UVPROCESS.COM)

SAFE USE & OPERATIONS MANUAL

Please record your VersaProbe Serial Number in the space below. This number will be needed for replacement parts and any warranty issues.

The Serial Number is located on the back side of the VersaProbe.

**VersaProbe #:** \_\_\_\_\_

If you have questions about your new VersaProbe please contact CON-TROL-CURE at info@uvprocess.com or call 773-248-0099.

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PART #M007-092, Release 1.1 Printed in the United States of America.

## RETURN AND WARRANTY CLAIMS PROCEDURES

**Upon receipt of the product:** Please inspect and operate the VersaProbe. Claims for damage, nonfunctionality and shipping damage must be made within three (3) days of receipt of the product. After this date, repair, not replacement may be offered.

**Return of product without cause:** A restocking fee of 25% will be charged on all product returns within 30 days from the date of purchase if products are in restock condition. Re-stock condition will be determined by CON-TROL-CURE. CON-TROL-CURE is not responsible for any loss or expenses caused during the return of products.

CON-TROL-CURE will make a good faith effort for prompt correction or other adjustment with respect to any product returned for restocking.

### Warranty claim:

1. Contact CON-TROL-CURE immediately when a product problem occurs.
2. If the problem requires return to CON-TROL-CURE for evaluation, you will be given a RETURN GOODS AUTHORIZATION NUMBER (RGA#). This number MUST accompany the product when returned to CON-TROL-CURE. A returned product to CON-TROL-CURE without a RGA# will not be evaluated and will not be given warranty consideration.
3. Return the product in a protective box, via an insured carriers to:

CON-TROL-CURE  
ATTN: Service Department  
1229 West Cortland Avenue  
Chicago, IL 60614

Inside the box include a written description of the product problems and prominently display the RGA# of your claim.

4. You will be notified via email or fax of the receipt of the product. This notification will indicate the time required to evaluate the product for warranty consideration. CON-TROL-CURE evaluation may take up to 30 days for receipt of the product. Evaluation may require additional time if the product problem requires Apprise to send the product to a third party for further evaluation.
5. You will be notified via email, fax or phone upon the completion of the evaluation and determination of corrective action. CON-TROL-CURE reserves the right to repair or replace defective products.

**WARRANTY**

CON-TROL-CURE warrants its products to be free from defect in materials and workmanship under normal use for a period of one (1) year from the date of purchase. At its option, CON-TROL-CURE will repair or replace any defective part for one (1) year from the date of original purchase in the event of a defect in materials and workmanship.

This warranty is extended solely to the original purchaser. A purchase receipt (or other proof of original purchase date) and product serial number will be required before warranty service is rendered

This warranty shall not apply:

1. To products damaged in shipping,
2. To products not supplied by CON-TROL-CURE, or CON-TROL-CURE sales partners, and
3. To a product which has been subject to negligence, accident or damage or to improper operation, maintenance, repair alteration or to other than normal use and service

There are no other express warranties.

**LIMITATION OF LIABILITY:** IN NO EVENT SHALL CON-TROL-CURE'S LIABILITY EXCEED THE TOTAL AMOUNT PAID BY BUYER FOR THE PRODUCT. IN NO EVENT SHALL CON-TROL-CURE BE LIABLE TO THE BUYER OR ANY OTHER ENTITY FOR A ANY ANY - SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, HOWEVER CAUSED, OR ANY THEORY OR LIABILITY INCLUDING WITHOUT LIMITATION LOSS OF GOODWILL, PROFITS OR REVENUE, LOSS OF USE OF THE PRODUCT, COST OF CAPITAL, COST OF ANY SUBSTITUTE PRODUCT OR CLAIMS OF ANY PARTY DEALING WITH THE BUYER FOR SUCH DAMAGES. ALL EXPRESS AND IMPLIED WARRANTIES INCLUDING THE WARRANTIES OR MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH AB ABOVE

**TABLE OF CONTENTS**

PRODUCT OVERVIEW..... 1  
 MAINTENANCE..... 2  
 LOW BATTERY ..... 2  
 SPECIFICATIONS ..... 3  
 FUNCTION DIAGRAMS ..... 4, 5  
 MEASURING IRRADIANCE ..... 6  
 MEASURING DOSE ..... 7  
 WARRANTY..... 8  
 CLAIMS PROCEDURES ..... 9

**PRODUCT OVERVIEW**

The VersaProbe is an electro-optic radiometer and dosimeter which measures instantaneous irradiance and cumulative dose.

- Features include:**
- » 2 in 1 device: Radiometer/Dosimeter
  - » Pocket size
  - » Local sensor or remote probe with 10' cable
  - » Two additional remote probes available
  - » Manual dose preset
  - » Timer Sound and light indicators of time and dose
  - » Low battery indicator
  - » Battery or optional AC Power Adapter



**Safety Considerations: UV Protection -**  
 Always use suitable eye, face and skin protection equipment when working with UV light. The use of gloves, safety glasses, viewing windows, shields and filter materials are recommended. Please consult your UV equipment manufacturers information for additional UV safety considerations.

## PRODUCT OVERVIEW

### MEASUREMENT

The VersaProbe measures instantaneous irradiance and cumulative dose.

IRRADIANCE is the intensity of the arriving energy. It incorporates all of the individual effects of electrical power to the lamp, lamp efficiency, and radiant output. DOSE is the accumulated exposure. It is calculated from irradiance as integral during the time of exposure.

### TRACEABILITY AND ACCURACY

VersaProbe calibration is directly traceable to a National Institute of Standards and Technology (NIST) primary standard for UV photodiodes. The typical spectral sensitivity curve has a maximum at 370nm. Accuracy of the VersaProbe is  $\pm 5\%$  typical,  $\pm 10\%$  maximum.

CON-TROL-CURE recommends periodic recalibration of your instrument every 12 months. Calibration services are available through CON-TROL-CURE.

### MAINTENANCE AND STORAGE

**VersaProbe Cleaning:** Use a dry, soft cloth to clean the radiometer/closi meter.

**Photodiode Cleaning - Local and Remote Sensor:** The photodiode window should be cleaned with cotton swab and ethyl or rubbing alcohol before each use. Keep the photodiode free of oils, dirt and dust.

Do not store the VersaProbe in extreme temperatures or humidity (refer to specification for exact measurements). Do not store in direct sun light.

### LOW BATTERY

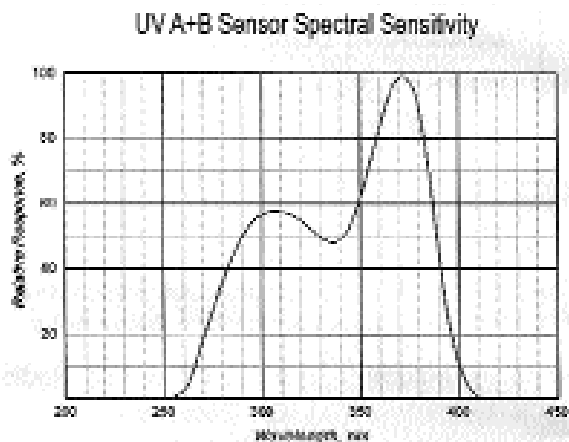
**Low Battery Indication:** When the battery needs to be changed the "Low Battery" LED lights up (see pg.4 for location of Low Battery LED). If this happens during an exposure run, you should replace the battery and then repeat the measurement.

**Replacing the Battery:** Before replacing the battery make sure the VersaProbe is turned off. Remove the battery compartment cover (see pg. 5 for location of the battery compartment). Remove the old battery and properly dispose of it. Install a new 9V battery.

## STEPS TO MEASURE DOSE:

1. Push the red ON/OFF button to turn the VersaProbe on.
  2. Depress the silver DOSE/IRRADIANCE button to the down position.
  3. Push and hold down the gray DOSE LEVEL button.
  4. Turn the black DOSE LEVEL SET knob until the LCD display reads the dosage number (in mJ/cm<sup>2</sup> units) you desire.
  5. Release the gray button.
  6. Place the Remote Sensor at the end of the probe facing the light source **OR** point the local sensor facing the light source.
  7. Push the white *ZERO button* to reset the VersaProbe before measuring.
- NOTE:** The LCD display should indicate a reading of 000
8. Release white ZERO button and at the same time, turn the UV light source on. The VersaProbe will calculate the UV dose and will display the result on the LCD screen in real time.
  9. Push and hold the gray TIME button to look at elapsed time.
  10. When the device reaches the preset dosage, the green DOSE LED will come on, and an audible signal will be heard.
- NOTE:** When the VersaProbe is ON or is being used in bright sun light, an audible signal may sound.
11. If the preset dose can not be reached during 200 seconds, the red TIME LED lights up **AND** a signal will sound. (Measurement of dose will continue after the 200 second warning.)
  12. Push the red ON/OFF button to turn the VersaProbe off.

**NOTE:** To measure again with the same dose level, repeat steps 6 - 9.



## STEPS TO MEASURE IRRADIANCE

### WHEN USING THE LOCAL, BUILT-IN SENSOR:

1. Push the red ON/OFF button to turn the VersaProbe on.
2. The silver, DOSE/IRRADIANCE button must be in the up position for irradiance measurements.

**NOTE:** The LCD display should indicate a reading of 00.0 in the absence of UV light.

3. Expose the Local Sensor to the UV light source.
4. Within seconds the LCD indicates irradiance in MW/CM<sup>2</sup>.
5. Push the red ON/OFF button to turn the VersaProbe off.

### WHEN USING A REMOTE PROBE:

1. Plug the Remote Probe (A+B, A or B), into the Remote Sensor port.
2. Push the red ON/OFF button to turn the VersaProbe on.
3. The silver button must be in the up position for irradiance measurements.

**NOTE:** The LCD display should indicate a reading of 00.0 in the absence of UV light.

4. Expose the Remote Sensor at the end of the probe to the UV light source or place the Remote Sensor near the surface of the item being cured.
5. Within seconds the LCD indicates irradiance in MW/CM<sup>2</sup>.
6. Push the red ON/OFF button to turn the VersaProbe off.



**Safety Considerations: UV Protection** - Always use suitable eye, face and skin protection equipment when working with UV light. The use of gloves, safety glasses, viewing windows, shields and filter materials are recommended. Please consult your UV equipment manufacturers information for additional UV safety considerations.

## PRODUCT SPECIFICATIONS: STANDARD VERSAPROBE PACKAGE

(Standard package: Radiometer/Dosimeter, local and remote A+B photodiode, and manual.)

Response Range	280 - 400 nm (UV A+B)
Peak Response	370 nm
Sensor (built in and remote)	UV A+B, GaAsP Photodiode
Conv. Rate	2.0 Readings/Sec
Display	3.5 Digit LCD (digit size 0.5 inch high)
Operating Temperature-Body	60° - 95° F (15° - 35° C)
Maximum Temperature-Probe	158° F (70° C)
Oper. Humid.	15% to 80% RH
Dimensions	4.4"L x 2.64"W x 1.1 "D (112 x 67 x 28mm)
Weight	6.0 OZ (170 g) incl. battery
Power Source	9-Volt battery (not included in package) 6AM-6PI or MN1604 (61-R61) alkaline battery recommended. Optional: AC Power Adapter available
Supply current	<3 mA
Low Battery operating level	7.5 V

### RADIOMETER MODE:

Irradiance Range	0 - 199.9 mW/cm <sup>2</sup>
Resolution	0.1 mW/cm <sup>2</sup>
Accuracy	±5% typical, ±10% maximum

### DOSIMETER MODE:

Dose Range	0 - 1999 mJ/cm <sup>2</sup>
Resolution	1 mJ/cm <sup>2</sup>
Max. Integration Error	±5 units during 100 s
Manual Preset Dose	10-1700 mJ/cm <sup>2</sup>
Max. Integrating Time	200 Sec
Time Accuracy	±2% of actual
Indication (Dose or/and Time)	Flashing Light and Sound

### OPTIONS:

Remote Probes	UVA	320 - 400 nm
	UV B	280 - 320 nm
AC power adapter	Input	120VAC/60Hz/4W
	Output	9VDC/200mA

