

UV PROCESS SUPPLY, INC.

CON-TROL-CURE® UV HAZARD RADIOMETER INSTRUCTION MANUAL

PART # M007-051

The 6D Ultraviolet Hazard Meter is sensitive to most of the ultraviolet specified as hazardous in the standards published by the American Conference of Governmental Industrial Hygienists (ACGIH).

The proposal states, that total UV exposure in an 8 hour working period (Threshold Limit Value TLV) should not exceed 3 millijoules per centimeter squared at 270 nm Other wavelengths have their Threshold Limit Values set by the Relative Spectral Weighting Function marked SWF.

For better understanding of the TLVs, it is essential that the publications of ACGIH be consulted when the meter is used.

The meter shows directly the time (in hours and 1/100 parts of an hour) after which the TLV is reached.

Since the spectral response of the meter differs from the published Relative Spectral Weighting Function, the reading of the meter may be loaded with some error depending on the spectral output of the measured light source. The correction factor was calculated for some typical sources. Correction factors for other sources can be calculated upon request. Caution should be taken when measuring sources generating mostly UV wavelengths shorter than 250 nm since the reading of the meter can be substantially lower than actual hazard.

USING THE METER

Turn the power ON by sliding a switch on the side of the case.

Hold the meter steady pointing the sensor towards the potential source of UV hazard.

If varying, take 3 consecutive readings and average.

Multiply the reading by the correction factor that is source dependent. The result is in hours and 1/100 of an hour.

<u>Light source</u>	<u>Correction factor</u>
Quartz halogen lams (150W)	1.0.
Xenon arc lamps (150W)	1.5
Direct sunlight (30°Zenith Angle, 2.7mm Ozone column)	0.4
Mercury discharge lamp	1.2

The smallest possible reading is 0.02-0.03 hours (90 and 108 seconds respectively). It means extremely hazardous UV radiation that will deliver TLV in less than 108 seconds.

The maximum reading is 10.00 hours that means no UV hazard exists. When the UV light is weak (the meter reads 6 hours or more) the reading tends to vary especially when hand held. Using a steady support or averaging consecutive readings will give meaningful result.

If the LOBAT sign on the display is ON the battery should be changed. Use standard 9V battery for replacement. An average battery life should be over 100 hours of continuous operation.

UV PROCESS SUPPLY, INC.
CON-TROL-CURE® UV HAZARD RADIOMETER INSTRUCTION MANUAL
PART # M007-051

TECHNICAL SPECIFICATIONS

Detector viewing angle	±30°
Battery	9V
Power consumption	<3mA
Operating environment	0..40°C, no humidity condensation
Weight	7OZ (200g)
Dimensions	6"Lx3.2"Wx1 . 5"H (1 5x8x3. 5cm)

This document provides information about a product distributed by UV Process Supply, Inc ("the Seller"). The information provided in this document is offered in good faith and is believed to be reliable, but is made **WITHOUT WARRANTY, EXPRESS OR IMPLIED, AS TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY OTHER MATTER.**

This document is not intended to provide advice (technical, legal or otherwise) for a particular set of facts, but is of a general nature. Users of this document should consult with their own advisors and appropriate sources. The Seller and its employees do not assume any responsibility for the user's compliance with any applicable instructions, laws or regulations, nor for any persons relying on the information contained in this document.

All risk arising out of the performance of this product and/or the understanding of its usage remains solely with the Buyer. In no event shall the Seller be held liable for lost profits, lost savings, incidental or direct damages or other economic consequential damages regardless of any statement, expressed or implied, of such liability by the Seller's employees or any of its authorized agents. In addition, the Seller and its suppliers will be held harmless for any damages claimed on behalf of any third party.

The Buyer of this product accepts full responsibility and understanding for the terms and specifications set forth herein.