

Lamp Voltage Interface™

Installation and Operation Instructions

Model No. B003-001

SAFETY

1. To ensure safe installation and use of your Lamp Volt Interface™ (LVI™), please direct all users to read this technical sheet.
2. Turn off the power supply at its source before installing this unit, or before performing any maintenance work.
3. ALLOW TIME FOR CAPACITORS TO DISCHARGE BEFORE WORKING ON ANY POWER SUPPLY.
4. DO NOT TOUCH EXPOSED POSITIVE OR NEGATIVE INTERFACE LEADS WHEN INSTALLING THIS DEVICE.
5. Keep flammable materials a minimum of three feet from any operating equipment.
6. Do not alter the wiring of this unit prior to, during or following installation.
7. The LVI™ permits volt reading by a high impedance meter by reducing the actual reading to 1/100th of actual power. Therefore, an actual voltage of 2000V would be displayed as “20.00.”
2. Loosen and remove the nut that secures the lamp lead to the ballast terminal. Do not remove the lead from the terminal.
3. Slip the round, closed-end LVI™ connector lead over the ballast terminal and secure.
4. Locate the first capacitor that is wired directly to the first mercury relay. Plug the stab-on connector onto an available tab on the capacitor.
5. Mount the LVI™ junction box to the inner side-wall of the power supply cabinet. This unit can be mounted by drilling two holes in the side of the cabinet, and securing the junction box with two #6, #8 or #10 screws. Proper mounting will prevent excessive vibration and ensure consistent, long-term performance.
6. Connect the interface leads into appropriate +/- screw receptacles on a high impedance, panel-mount volt meter (must be a true RMS volt meter; available directly from UVPS).
7. Close the power supply cabinet when assembly is complete. Turn power on at its source.

INSTALLATION

The Lamp Volt Interface™ must be installed parallel with the curing system's UV lamp wiring. Therefore, connector leads are to be installed directly over respective lamp leads connected to ballast and capacitor terminals.

1. With electrical power shut off at the source, open the power supply cabinet to expose your curing equipment's electrical components. Allow enough time for capacitors to discharge all electrical energy before beginning any work.

OPERATION

1. Turn your curing system or machinery on.
2. With the LVI™ integrated directly between your curing system's incoming power source and the capacitor, the panel-mount voltmeter will indicate (via its LCD or LED display) volt levels at .01 of actual power. Therefore, for units operating at 2450v, the voltmeter will display a reading of “24.50v”.

3. As volt level directly corresponds to lamp performance, the meter's readout will provide a ready indicator of how the lamp is working.
 - a. To set a baseline for lamp performance, note in your production log the volt level after a new lamp achieves peak power following start-up. This is your baseline figure.
 - b. Since a lamp's energy usage will fluctuate during its life span, measure the volt readings against the baseline figure regularly. As lamp cooling and degradation will reduce energy consumption and, therefore, lamp effectiveness, the LVI™ will help guard against under-curing by monitoring voltage constantly during the production cycle.

WARRANTY

LIMITED WARRANTY. This product is warranted by Con-Trol-Cure® only to purchasers use in business or original equipment manufacture, against defects in workmanship or materials under normal use for one year after date of purchase from Con-Trol-Cure, unless otherwise stated in purchase agreement. Any part which is determined by Con-Trol-Cure to be defective in materials or workmanship and returned to Con-Trol-Cure or authorized service location, as Con-Trol-Cure designates, shipping costs prepaid, will be, as the exclusive remedy, repaired or replaced, at Con-Trol-Cure's option.

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