Versa-Pak
Analog
Dimmer

User Manual

Revision 2, August 1998 070-0560

Introduction

This User Manual is supplied with your system. Copies of this manual may be obtained from Electronics Diversified, Inc. for a nominal charge. It is recommended that you copy those portions of this manual applicable to your present use in the installation, maintenance or repair and preserve the original in a safe place.

Description

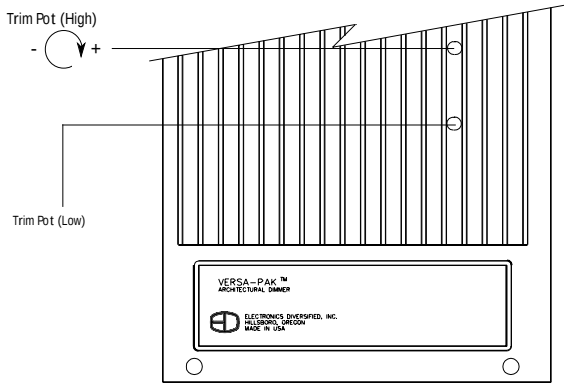
Cabinet: The Versa-Pak is an enclosure which contains one dimmer. The VP-DC has stake-on connectors for the line in, neutral, load and control connections.

Module: Modules are convection cooled, so no fans are required. The control voltage is analog, and is typically 0 to +10 volts D.C. @ 1Ma. A high-end calibration on each module allows the output voltage to be adjusted to 90% of input voltage. A low-end calibration is provided for adjusting the low end intensity level. Each module is self-contained, and may be removed or serviced without affecting the rest of the system. The only exception is when the low voltage supply from the dimmer module is running the controls.

High/Low Settings:

HIGH TRIM: This pot may be used to limit the high from 100% to 80% to lengthen lamp life. Set the control clockwise for 100% output.

LOW TRIM: This is minimum low level. If the high trim is changed, this low trim must also be adjusted.



Installation

Mounting: The Versa-Pak is designed to be wall mounted. Adequate ventilation should be provided, with a maximum operating temperature of 40°C (104°F). A fully loaded dimmer creates approximately 200 BTU/Hr of heat. If the dimmer is being used at or near it's maximum rating, consideration of the heat generated should be given.

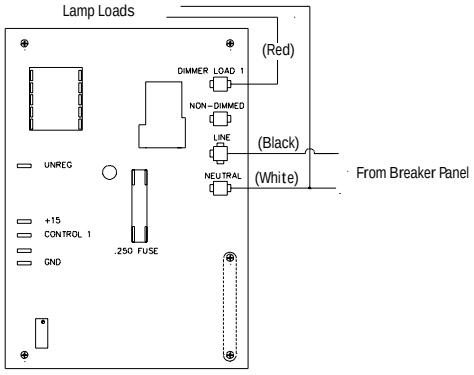
Access: The only spacing requirements for access and working space is that required by NEC and local electrical codes for dead front switchboards.

Wiring: All connections are made to internal pigtail wiring, or plug connectors. All wiring should comply with local codes. All wiring must be rated for 150 volts or more.

Input Power: Input power is a single 20 Amp, 120/240VAC, 50/60Hz. circuit. The input power circuit must be protected by a 20 Amp branch circuit breaker.

Dissipation: The Versa-Pak has a power dissipation of 100 BTU for each 1000 watts of connected load.

Power Connection: Connect 120VAC from a breaker panel to Line and Neutral. Connect the lamp loads to Dimmer Load 1. For architectural applications, EDI recommends a load not to exceed 1920 watts load on a single 20 amp dimmer.



SINGLE INCANDESCENT DIMMER

Operation

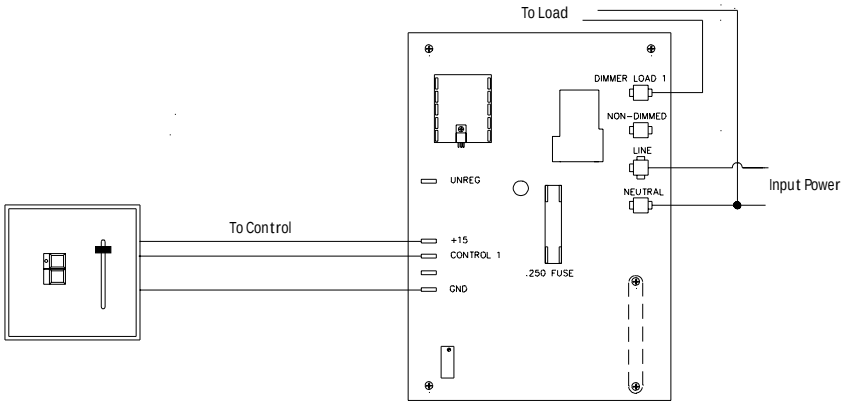
Start: Each dimmer module is self-contained, and requires only a line voltage input, neutral, load, and a control voltage input (0 to 10 volts, D.C.). Connections to the dimmer module are made with .15" stake-ons, which plug onto labeled terminals on the circuit board attached to the back of the terminal.

With a control voltage of less than approximately .35 volts, the output will be Off. As the control voltage is brought up to +10 volts, the load output will proportionally rise to Full.

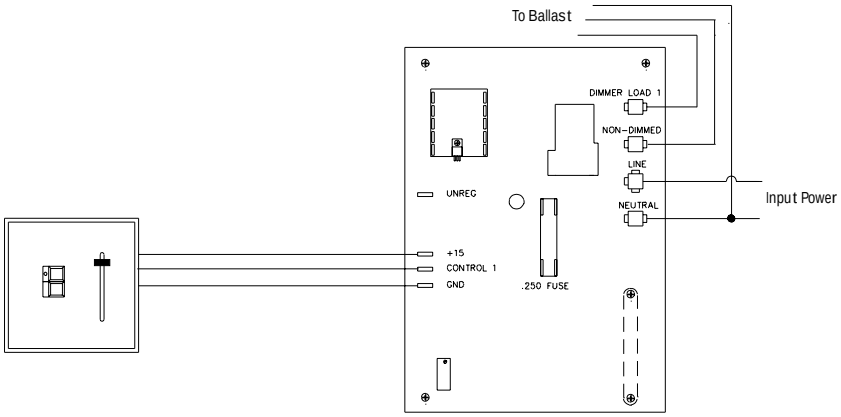
Reducing the control from +10 to 0 volts will turn the output Off.

Wiring Schematic

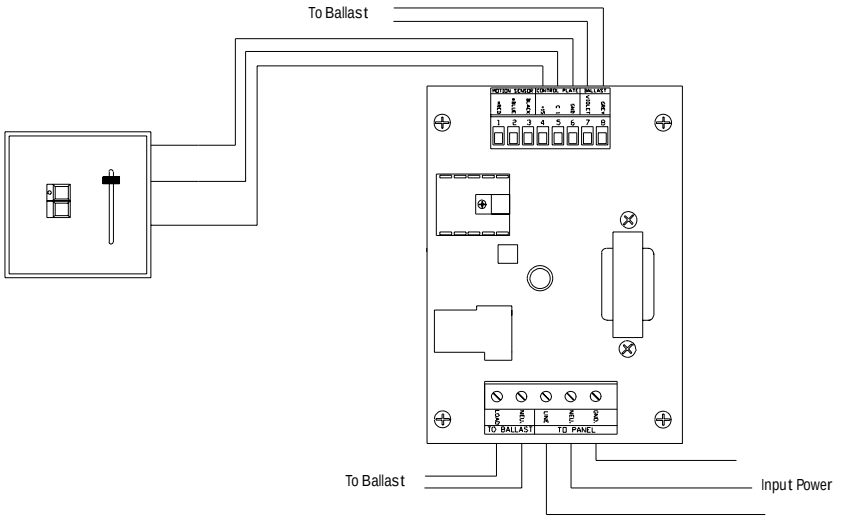
Standard Incandescent Dimming



Magnetic Dimming Ballast Fluorescent



Advance Mk-7 Electronic Dimming Ballast Fluorescent



Troubleshooting

While the Versa-Pak is generally trouble-free, there will be occasions which require changes, corrections, or replacement of faulty components. This section will provide information necessary to isolate and pinpoint problem areas. A technical background is assumed, and a digital multimeter is necessary to perform some of the checks.

Symptom	Possible Cause	Remedy
System is dead.	No power. Bad Fuse Bad 15V Power Supply	Verify presence of voltage at power input. Replace 3 AG fuse. Check +15V supply on dimmer.
No dimmer output.	Bad SSR Pack. Bad Unit	Replace SSR Pack. Replace unit.
Dimmer stuck at full On.	Bad SSR Pack. Bad Dimmer unit	Replace SSR Pack. Replace unit. The problem is in the control unit.

Replacement Parts

Replacement parts are available from Electronics Diversified, Inc.

To obtain replacement parts, call (800) 547-2690 and ask for Customer Service.

Since these systems are customized for individual applications, it is important that you have the following information available when you call.

The equipment type or number, serial number, and original EDI system drawing number (As-Built Drawing Number). Please SPECIFY LINE VOLTAGE.

When calling, the customer service representative will help to determine the proper part you need, and any additional parts, if necessary, depending upon your requirement.

EDI Part No.	Description
020-1000	Dimmer Module (Single 20A Dimmer)
152-2025	SSR Pack (Single 20A Dimmer)
970-1001	VP-2/1 Complete Dimmer Assembly (Incandescent Single 20A Dimmer)
970-1605	VP-2\FDB Fluorescent Dimmer
970-1013	VP-2/ADV Advance Mark VII Ballast Controller

Service

EDI offers a 24 hour Service / Support Network.

For technical questions about this product or operational assistance, ask for Customer Service at: 1-800-547-2690

You may communicate by FAX: 1-503-629-9877

After Hours Emergency contact: 1-503-645-5533
Ask for Emergency Assistance.

Internet: . . . . . www.edionline.com

Internet E-Mail: . . . . . service@edi.org

If your Versa-Pak needs repair, call 503-645-5533 for a Return Materials Authorization number, and a ***shipping address*** will be furnished.

Electronics Diversified, Inc.
1675 N.W. Cornelius Pass Road, Hillsboro, Oregon, 97124
Ph: (503) 645-5533 Fax: (503) 629-9877

Attention Versa-Pak Analog owners!

Please return this registration card immediately.

Your prompt attention to this matter will ensure your receiving updated technical information for this product as it becomes available. Please complete all information. Look for acknowledgment of your registration within 6-8 weeks.

Name: _____

Title: _____

Facilityand/orCompany: _____

_____

Street Address: _____

_____

City: _____ State: ____ Zip: _____

Phone: _____

Fax: _____

E-mail: _____

Web site: _____

CUT ALONG DOTTED LINE

Mail to:
EDI User Manual Registration
1675 NW Cornelius Pass Road
Hillsboro, Oregon 97124

or FAX to: (503) 629-9877

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