



# Architectural Dimmers

## Features

- U. L. listed
- Thermally protected
- 120, 240, 277 Volt operation
- Quiet, solid-state SSR controlled
- Convection cooled, requires no fans
- Optional hand-held programmer/test unit
- Single 20 amp module with latching relay
- Optional remote On/Off and Panic controls
- User-adjustable high and low level settings
- Automatic operation via momentary contact inputs
- User-adjustable individual up and down fade rates

## Versa-Pak Automatic Cinema Dimmer



## Description

The Versa-Pak Automatic Cinema dimmer is designed for use in movie theatres where automatic fading via projector or time clock activation is desired. Each self-contained module operates from a remote signal and provides four separate control functions: fade-up rate, fade-down rate, high setting, and low setting.

When a signal is received, the dimmer automatically fades from one preset to the other. The fade rates for the presets are individually adjustable.

A hand-held remote test unit is available for exact level and time settings of one or multiple dimmers.

Single units are a stand-alone module installed in line between the feed panel and the load. Multiple dimmers may be installed in a cabinet with a dedicated feed and individual circuit protection.

Although designed for architectural dimming, the Versa-Pak Automatic Cinema dimmer is engineered with the same quality standards demanded in performance industry dimming systems.

Each module includes a backbox, heatsink, temperature sensor to monitor operating temperature, a reliable 40 Amp SSR package, toroidal filter and control electronics.

### Dimming Modules:

All Versa-Pak modules are U.L. listed and labeled for load operation.

#### Incandescent:

Model Number	Description
VP-2/I-120ACD	Single 20A 120VAC dimmer
VP-2/I-240-ACD	Single 20A 240VAC dimmer
VP-D1/I-12-ACD	Dual 10A 120VAC dimmer
VP-D1/I-240-ACD	Dual 10A 240VAC dimmer

#### Neon/Cold-Cathode:

Model Number	Description
VP-2/NC-120ACD	Single 20A 120VAC neon or cold-cathode dimmer
VP-2/NC-240-ACD	Single 20A 240VAC neon or cold-cathode dimmer
VP-2/NC-277-ACD	Single 20A 277VAC neon or cold-cathode dimmer

#### Fluorescent Ballast

Model Number	Description
Mark VII CICB	Consult factory for specific ballast information.
VP-2/ACDV-120	Single 20 Amp 120VAC fluorescent dimmer
VP-2/ACDV-277	Single 20 Amp 277VAC fluorescent dimmer

#### Programmer/Test Unit

Model Number	Description
VP-TU	Hand-held programmer/test unit.

### Options:

#### Programmer/Test Unit:

- VP-TU
- Keyswitch
- 2-position Switch

### Order Information:

#### Incandescent Modules:

- VP-2/I-120-ACD
- VP-2/I-240-ACD
- VP-D1/I-120-ACD
- VP-D1/I-240-ACD

#### Neon/Cold-Cathode:

- VP-2/NC-120-ACD
- VP-2/NC-240-ACD
- VP-2/NC-277-ACD

#### Fluorescent, MarkVII

- VP-2/ADV-120
- VP-2/ADV-277

JOB NUMBER:

APPROVAL STAMP

JOB NAME:

CUSTOMER:

P. O. #

## Electronics Diversified, Inc.

PRODUCT DATA SHEET

A136

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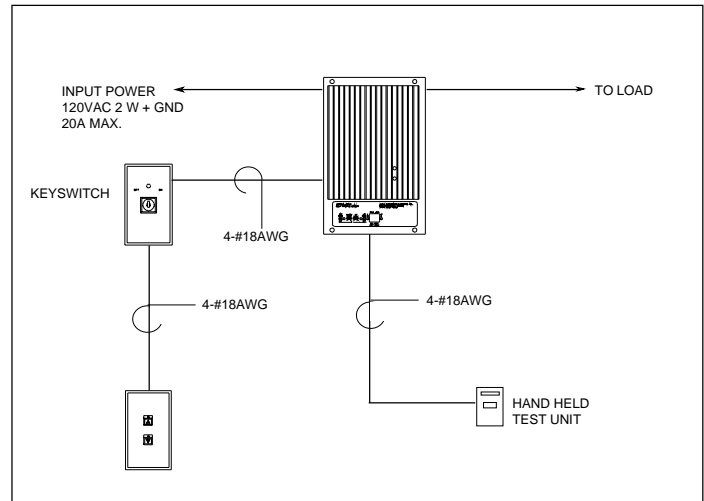
## Electrical Characteristics

**Input Power:** Single phase, 120/240 VAC, 50/60 Hz  
**Operating Environment:** Temperature range: 32° F. (0° C) to 104° F. (40° C). Humidity range: 0% - 90% non-condensing.

## Physical Characteristics

**Dimensions:** Versa-Pak: 9½" H x 6" W x 4" D (24.13cm x 15.24cm x 10.16cm)  
 Test Unit: 6" H x 3¼" W x 1" D (15.24cm x 9.52cm x 2.54cm)  
**Shipping Weight:** Versa-Pak: 10 lbs. (4.54kg)  
 Test Unit: 2 lbs. (.90kg)

## System Riser



## Specifications

### Dimmer Unit

- The dimmer enclosure shall not exceed 6" W x 9½" H x 4" D. The enclosure shall surface mount.
- The dimmer shall be a single 20 Amp model.
- Standard and low-voltage incandescent, quartz, dimming ballast, fluorescent, neon, and cold-cathode models shall be available.
- The dimmer shall be convection-cooled and shall include a thermal sensor to shut down the dimmer if the heatsink temperature exceeds 185° F. (85° C).
- The dimmer shall use an encapsulated pair of silicon-controlled rectifiers to provide symmetrical alternating current output to the load at any output level from OFF to FULL intensity. The entire load of the dimmer shall be carried solely by the silicon-controlled rectifiers. The silicon controlled rectifier shall inherently be designed in such a manner so that it is impossible for any spurious voltage to be transferred to the control wires and damage low-voltage electronics. In addition to the optical isolation provided internally in the power cube device, the protection design shall employ a combination of Metal Oxide Varistors (MOV's), pico fuses, and/or transzorb to provide complete protection. Dimmer modules without an individual thermal sensor shall not be acceptable.
- Each module shall have a toroidal, copper-wound, iron-core high performance choke. Performance rise time shall be no less than 325 µS. All measurements are from 10% to 90% at full load.
- Filters shall not be required for fluorescent or neon/cold-cathode models.
- The maximum heat loss for each 2.4Kw dimmer shall be no greater than 59 watts per dimmer or 100 BTU's per hour per connected Kw of load.
- The dimmer shall respond to a 24-Volt (max.) DC signal. All control inputs shall be electrically isolated from the incoming line and control electronics.
- There shall be a dimmer enable input. When this input is activated, the dimmer outputs shall be enabled.
- There shall be a dimmer work input. When this input is activated, the dimmer outputs shall be full on.
- There shall be two control potentiometers on the front panel to set the two different preset levels. When the control signal is received, the dimmer shall smoothly fade from one preset to the other. Changing the level of one preset shall not affect the setting for the other preset. The fade rate

shall be adjustable from 0.1 second to one minute via two 10-turn potentiometers. Adjusting one fade rate shall have no effect on the other fade rate.

- There shall be a front panel jack to allow a hand-held programmer/test unit to be connected. The jack shall allow for all external inputs to be overridden, and allow for all settings to be displayed.
- LED displays shall show dimmer enable, work mode, and the status of the two preset faders.
- The dimmer shall be U.L. Listed.
- The dimmer shall be the Versa-Pak ACD series as manufactured by Electronics Diversified, Inc., Hillsboro, Oregon, 97124.

### Hand-held Programmer/Test Unit

- The programmer/test unit shall be entirely self contained and shall not exceed 3¼" W x 6" H x 1" D. The unit shall be designed for hand-held operation.
- The unit shall have a two-line x 16-character LCD display. This display shall show the dimmer output levels, fade rate (in seconds and tenths of a second), and the status of the various control inputs.
- There shall be four 3-position switches. Each switch shall be able to enable, disable, or have no effect on an external control, depending upon its setting. The switches shall override the external signals, allowing for easy setup of the dimmer unit.
- The unit shall be the Versa-Pak series, as manufactured by Electronics Diversified, Inc., Hillsboro, Oregon, 97124.

