



## GENERAL INFORMATION

The Echo Phase-Adaptive Dimmer provides reverse- or forward- phase dimming for loads up to 600 watts. It is compatible with all Echo control products, including daylight and occupancy sensors and manual control stations, providing flexibility and energy savings.

### APPLICATIONS

- Houses of worship
- Education
- Hospitality
- Healthcare facilities
- Office buildings
- Conference rooms
- Meeting rooms
- Retail

### FEATURES

- Single-channel, 600-watt dimmer
- Forward or Reverse-phase operations
- 120V or 277V power input
- Plug and Play: ready to go out of the box, no software or external programming required
- Supports Unison Echo control stations and responsive controls
- EchoConnect®: Two-wire topology-free system gives you the freedom to put station where you need them
  - Up to 16 Echo control products
  - Up to 16 Echo output products
  - Up to 500 meters (1,640 feet) of control-wire per system

### GENERAL

- UL and cUL LISTED
- Rated for plenum use
- Supports Demand Response via EchoConnect

## ORDERING INFORMATION

### Echo Line Voltage Dimmer

MODEL	DESCRIPTION
ELVD-G2	600-Watt Phase Adaptive Dimmer (120V)
ELVD-277-G2	600-Watt Phase Adaptive Dimmer (277V)

### Echo Power Requirements

EchoConnect:	One unit of output power
Auxiliary Power:	Not required

### Echo Presets

Supports 16 Echo Presets
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**SPECIFICATIONS****FUNCTIONAL**

- Control individual fixtures or power for tungsten, line-voltage LED and other general-purpose loads
- Supports loads up to 600 watt loads
- Supports minimum loads of 1 watt
- Plug and Play: ready to go out of the box, no software or external programming required
- Interacts with Echo Responsive Controls and Stations

**MECHANICAL**

- Constructed of injection-molded ABS plastic
- Button interface and LED indicator per zone for configuration
- Rotary dials for selection of space and zone number
- Half-inch conduit knockout mounted
- Mains-voltage wiring exits through knockout mount
- EchoConnect wiring exits through side of controller
- MicroSD for field software upgrades
- Optional mounting plate available for applications that require low-voltage wiring to be in conduit
- External heatsink
- Mains power input:
  - 12 AWG Hot - Black (120V), Brown (277V)
  - 14 AWG Neutral - White
  - 12 AWG Ground - Green/Yellow
- Dimmed output:
  - 12 AWG - Red

**ELECTRICAL**

- 120V or 277VAC, 50/60Hz power input
- Phase-adaptive, default reverse phase
- 600W resistive or electronic load capacity
- 300W magnetic load capacity (120V only)
  - Magnetic transformers must be properly loaded to their rated current
  - Use care when retrofitting magnetic transformers with LED loads to ensure proper loading
- EchoConnect Class 2 control network
  - Topology-free wiring using Belden 8471 or equivalent and one #18 ESD drain wire
  - Wiring may be bus, loop, homerun or any combination of these
- Up to 500 meters (1640 feet) of control wiring per system
- Optional Cat5/5e wiring using Belden 1583A or equivalent
  - Requires optional Cat5 termination accessories
- UL and cUL LISTED
- Conforms to UL 508 and UL 2043

**THERMAL**

- Ambient room temperature: -10 to 45°C / 14 to 113°F
- Ambient humidity: 5 to 95% non-condensing

## ECHO FAMILY OF PRODUCTS

## EchoConnect Power Supplies

MODEL	DESCRIPTION
E-SPS	6U Room Station Power Supply, Knockout Mount
E-SPS-DIN	16U DIN rail Station Power Supply with 24V Aux
E-SPM	16U DRd Station Power Module
E-SPM-A	16U DRd Station Power Module with 24V Aux
E-SPM-RM	16U Rack-Mount Station Power Module Aux
E-SPM-RM-A	16U Rack-Mount Station Power Module 24V Aux
E-SPM-WM	16U Wall-Mount Station Power Module
E-SPM-WM-A	16U Wall-Mount Station Power Module 24V Aux
E-APS	24V Aux Power Supply, Knockout Mount

## Echo Stations

MODEL	DESCRIPTION
E1001	Inspire One Button Station
E1002	Inspire Two Button Station
E1004	Inspire Four Button Station
E1006	Inspire Six Button Station
E1008	Inspire Eight Button Station
E1104	Inspire Four Button with Fader Station
EPS05	Echo Preset Station - 5 Button
EPS10	Echo Preset Station - 10 Button
EPSLO	Echo Lockout Station
E-ATC	Echo TimeClock

## Echo Responsive Controls

MODEL	DESCRIPTION
ELS	Light Sensor
EOCC	Ceiling-Mount PIR Occupancy Sensor
EVAC	Ceiling-Mount PIR Vacancy Sensor
E-DOC-C	Ceiling-Mount Dual Tech Occupancy Sensor
E-DVAC-C	Ceiling-Mount Dual Tech Vacancy Sensor
E-DOC-W	Wall-Mount Dual Tech Occupancy Sensor
E-DVAC-W	Wall-Mount Dual Tech Vacancy Sensor
E-DOC-SM1	Switch-Mount Dual Tech Sensor - One Button
E-DOC-SM2	Switch-Mount Dual Tech Sensor - Two Button

## Echo Interfaces

MODEL	DESCRIPTION
EACC	EchoAccess Interface
EEB	Echo Expansion Bridge
EDMXC	Echo DMX Scene Controller
EEL	Echo-Echoflex Interface
ECII	Echo Contact Input Interface
ECOI	Echo Contact Output Interface
EDRI	Echo Demand Response Interface

## Zone Controllers

MODEL	DESCRIPTION
ERC-G2	One Zone Relay Controller
EDRC-G2	Two Zone Relay Controller
ELD-G2	One Zone 0-10V Controller
EDLD-G2	Two Zone 0-10V Controller
ESSC-G2	One Zone SmartSpace Controller
EDSSC-G2	Two Zone SmartSpace Controller
ELVD-G2	600-Watt Phase Adaptive Dimmer
ELVD-277-G2	600-Watt Phase Adaptive Dimmer- 277V

## Room Controllers

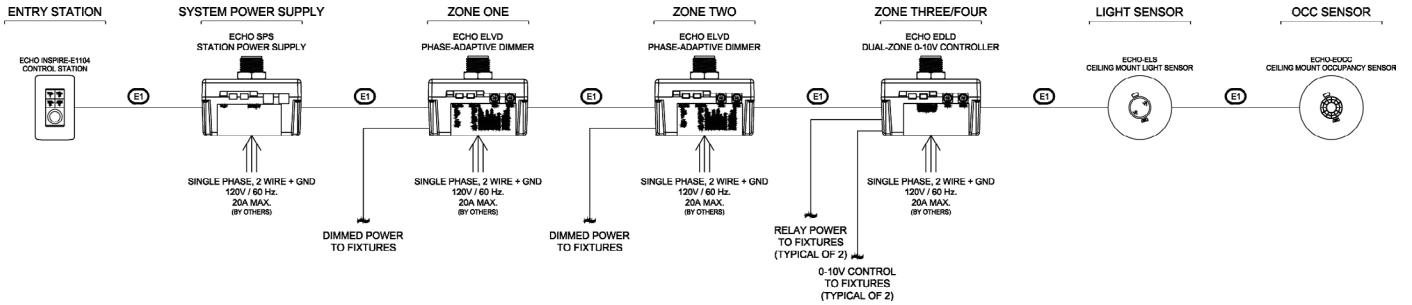
MODEL	DESCRIPTION
ERM4-G2	Four Zone Room Controller
ERMCT4-G2	Four Zone Room Controller with TimeClock
ERM8-G2	Eight Zone Room Controller
ERMCT8-G2	Eight Zone Room Controller with TimeClock

## Panel Products

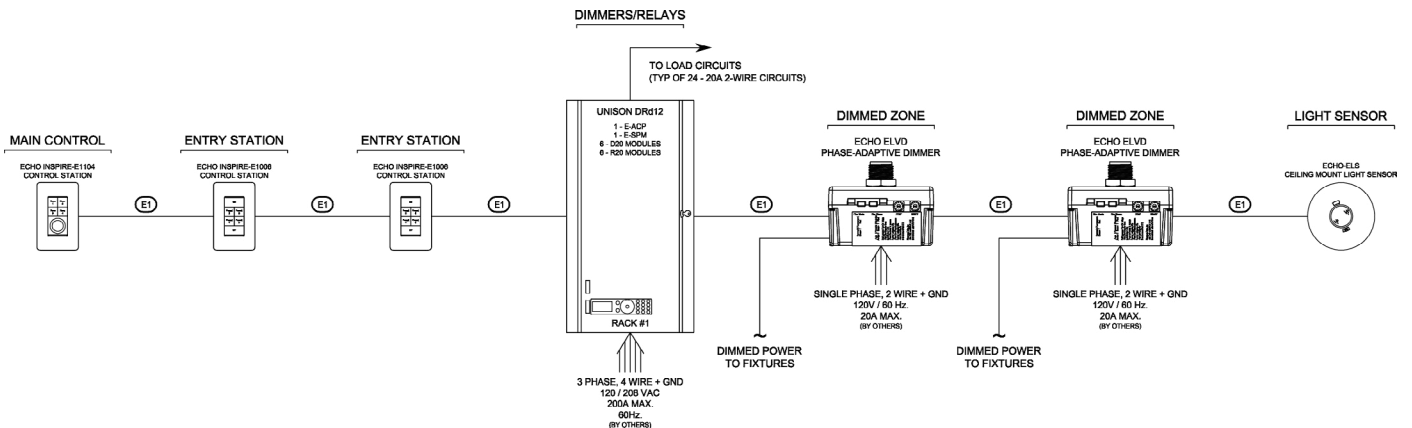
MODEL	DESCRIPTION
ERP	Echo Relay Panel Mains Feed
ERP-FT	Echo Relay Panel Feed Through
SensorIQ	Sensor IQ Intelligent Breaker System
SR3	Sensor3 Power Control System
DRd	Unison DRd with Echo Control

SAMPLE ECHO SYSTEMS

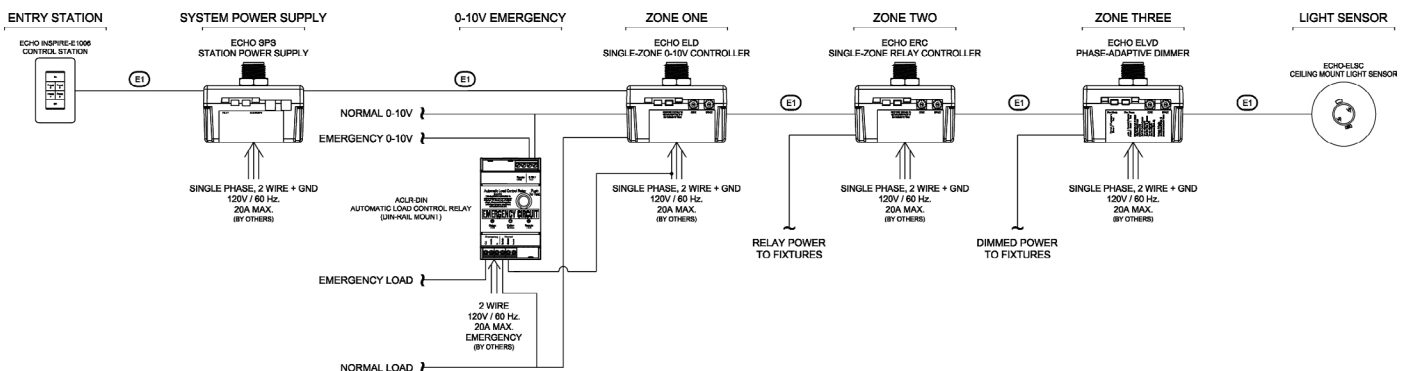
### SMALL SYSTEM



### MEDIUM SYSTEM

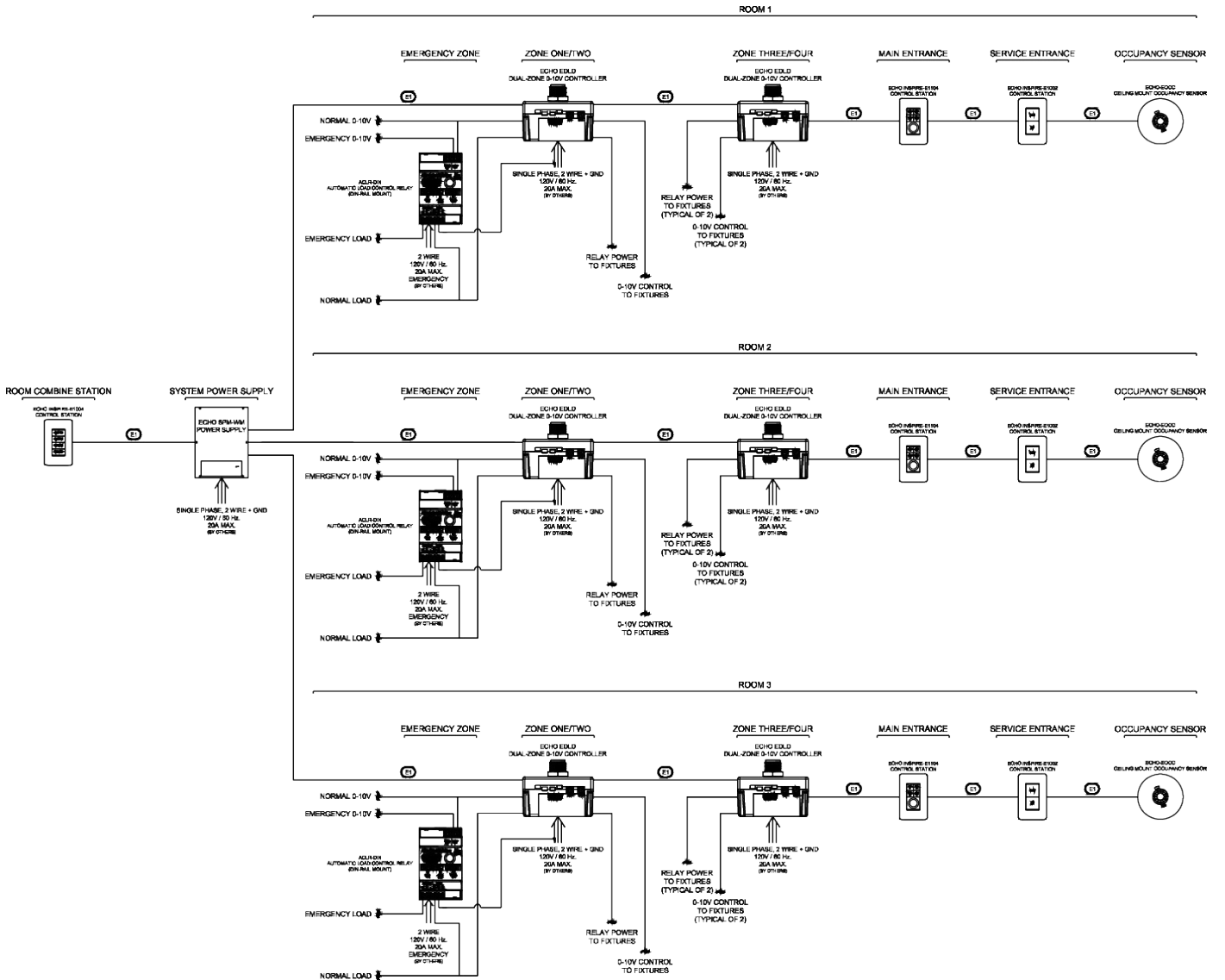


### CONFERENCE ROOM



SAMPLE ECHO SYSTEMS

### MEDIUM BALLROOM



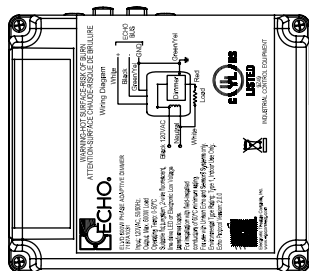
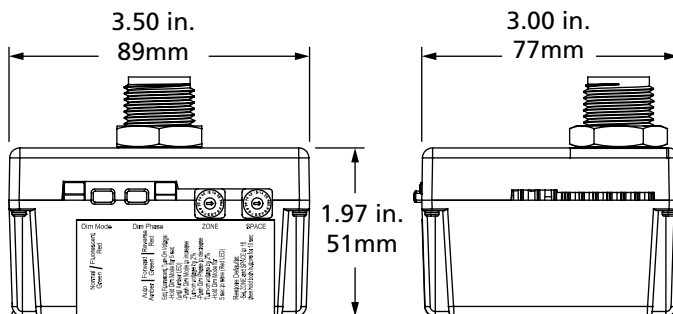
### PHYSICAL

#### Dimmer Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
ELVD-G2	2.0	50.8	3.5	88.9	3.0	76.2
ELVD-277-G2	2.0	50.8	3.5	88.9	3.0	76.2

#### Dimmer Weight

MODEL	WEIGHT	
	lbs	kg
ELVD-G2	0.75	0.34
ELVD-277-G2	0.75	0.34



**Corporate Headquarters** • 3031 Pleasant View Rd, PO Box 620979, Middleton WI 53562 0979 USA • +1 608 831 4116

**London, UK** • Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK • +44 (0) 20 8896 1000

**Rome, IT** • Via Bruno Pontecorvo 10, 00012 Guidonia Montecelio, Roma, Italy • +39 06 32 111 683

**Holzkirchen, DE** • Ohmstrasse 3, 83607 Holzkirchen, Germany • +49 (80 24) 47 00-0

**Hong Kong** • Room 1801, 18/F, Tower 1 Phase 1, Enterprise Square, 9 Sheung Yuet Road, Kowloon Bay, Kowloon, Hong Kong • +852 2799 1220

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