ETC®

Unison Echo® 0-10V Controller

115/120V 277V

Echo Distributed Power Series

GENERAL INFORMATION

Unison Echo 0-10V Dimming Controllers offer fully-rated 20-amp relays coupled with 0-10V dimming for direct control of compatible LED drivers and fluorescent dimming ballasts. The Controller mounts to fixtures and electrical junction boxes.

APPLICATIONS

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

FEATURES

- Single- and dual-zone options
- 20A fully-rated relay for use with general purpose, tungsten, fluorescent and LED loads
- Fully isolated 0-10V dimming for direct connection to dimming ballasts and LED drivers
- 120/277VAC 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 stations where you need them
  - Up to 16 Echo control products
  - Up to 16 Echo output products
  - Up to 500 meters (1640 feet) of control wire per system

GENERAL

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

ORDERING INFORMATION

Echo 0-10V Dimming Controller

MODEL	DESCRIPTION
ELD-G2	Echo Single-zone 0-10V Controller
EDLD-G2	Echo Dual-zone 0-10V Controller

Echo Power Requirements

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

Echo Presets

Supports 16 Echo Presets

SPECIFICATIONS

FUNCTIONAL

- Control for individual fixtures, zone power and 0-10V dimming for fluorescent ballasts and LED drivers
- Plug and Play: ready to go out of the box, no software or external programming required
- Interacts with Unison Echo control stations and responsive controls

MECHANICAL

- Constructed of injection-molded ABS plastic
- Single-zone and dual-zone options
- 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 and 0-10V wiring exits through knockout mount
- EchoConnect wiring exits through side of controller
- Optional mounting plate available for applications that require low-voltage wiring to be in conduit
- MicroSD for field software upgrades
- Mains power input:
  - 12 AWG Hot - Black
  - 14 AWG Neutral - White
- Relay output:
  - Zone 1, 12 AWG - Red
  - Zone 2, 12 AWG - Red/White (Dual-zone only)
- 0-10V dimming output:
  - Zone 1, 22 AWG - Violet and Gray
  - Zone 2, 22 AWG - Violet/White and Gray/White (Dual-zone only)
- EchoConnect control connection:
  - Control, 18 AWG - Black and White
  - Ground, 18 AWG - Green/Yellow

ELECTRICAL

- 120V-277V, 60Hz power input
- Normally Open (NO) 20A fully-rated relay
- 0-10vDC ballast control (sink) rated for 100mA maximum, fully isolated from ground
- 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
EEI	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

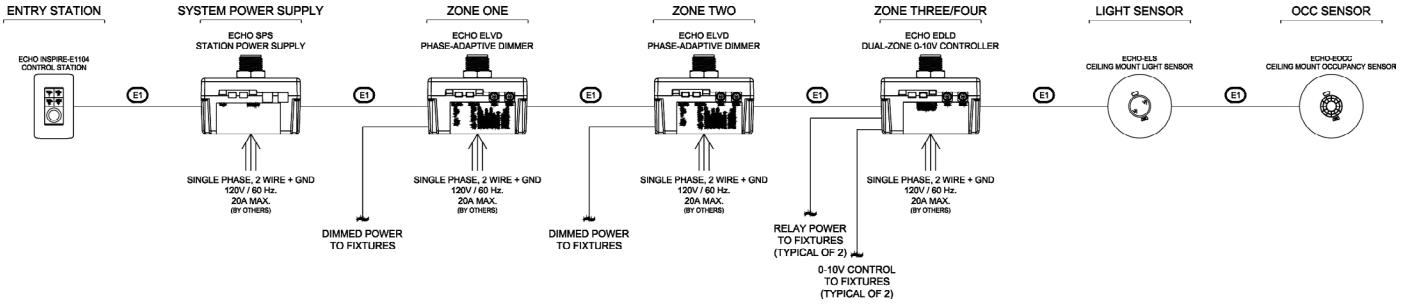
MODEL	DESCRIPTION
ERMC4-G2	Four Zone Room Controller
ERMCT4-G2	Four Zone Room Controller with TimeClock
ERMC8-G2	Eight Zone Room Controller
ERMCT8-G2	Eight Zone Room Controller with TimeClock

Panel Products

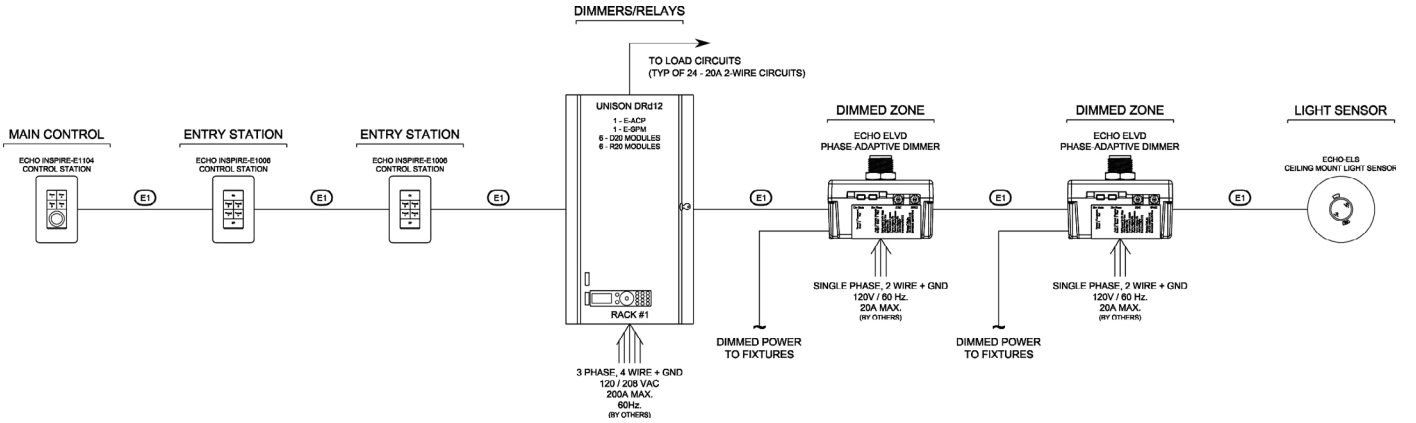
MODEL	DESCRIPTION
ERP	Echo Relay Panel Mains Feed
ERP-FT	Echo Relay Panel Feed Through
SensorIQ	Sensor IQ Intelligent Breaker System
SR3	Sensor3 Power Control System
DRd	Unison DRd with Echo Control

SAMPLE ECHO SYSTEMS

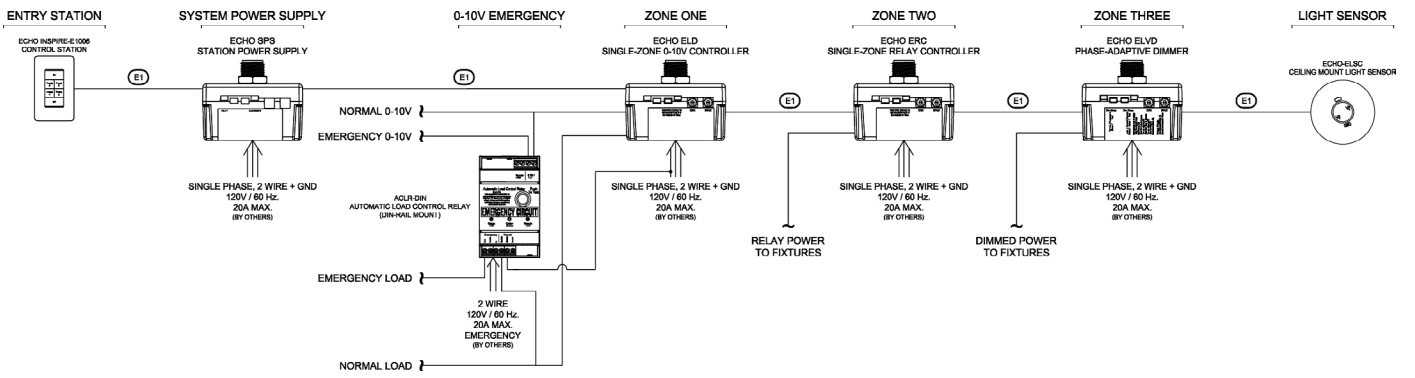
SMALL SYSTEM



MEDIUM SYSTEM

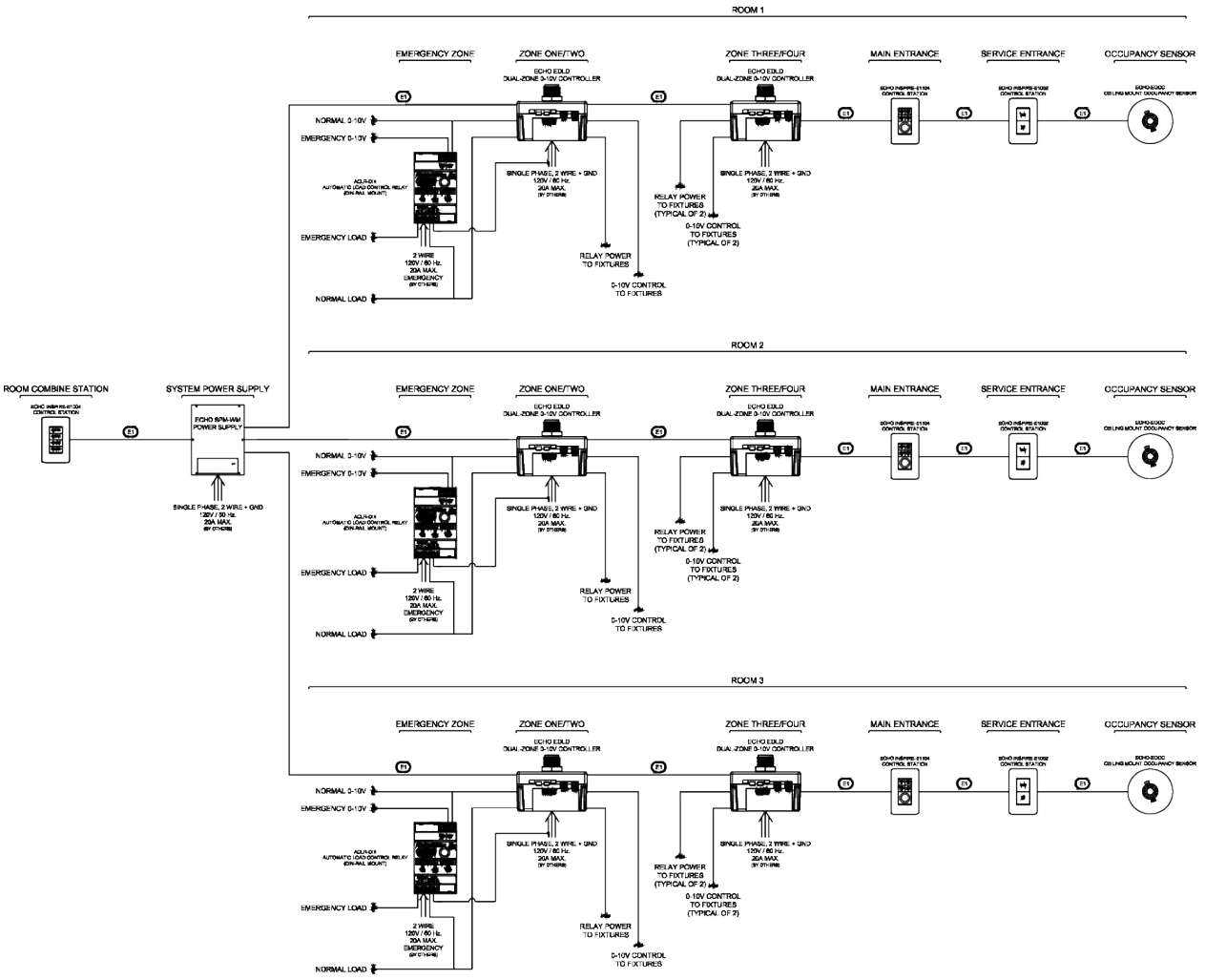


SMALL CONFERENCE ROOM



SAMPLE ECHO SYSTEMS

MEDIUM BALLROOM



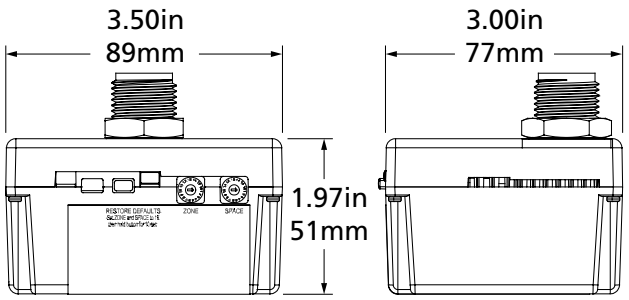
PHYSICAL

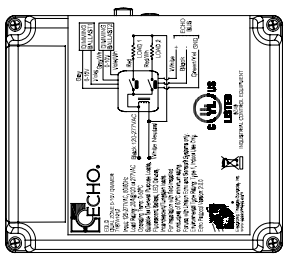
Dimmer Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
ELD-G2	2.0	50.8	3.5	88.9	3.0	76.2
EDLD-G2	2.0	50.8	3.5	88.9	3.0	76.2

Dimmer Weights

MODEL	WEIGHT	
	lbs	kgs
ELD-G2	0.75	0.34
EDLD-G2	0.75	0.34





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