ETC

Unison® 240V External Control Enclosure

UL LISTED us   c UL LISTED   **240V**

Unison Control Series

GENERAL INFORMATION

With the ERn enclosure, you choose the features you need for your facility's unique lighting and building control requirements: processing, station support, power options, and networking. By isolating core components as a module, we optimize the system's longevity and performance. Compact external control enclosures available in two sizes; ERn2 and ERn4.

APPLICATIONS
- Churches
- Hotels
- Resorts
- Convention Centers
- Theatres
- Schools
- Restaurants
- Theme Parks
- Cruise Ships

FEATURES
- LinkConnect – using Echelon® LonTalk® protocol with LinkPower, the two wire topology–free system gives you the freedom to put station where you need them
- NetConnect – making use of low–cost, easy to install Cat5/5e with PoE to connect touchscreen stations and other devices to a networked Paradigm System
- RideThru* – Backup processor power for at least 10 seconds to accommodate short term power loss
- BatteryPack* – Backup processor power for at least 90 minutes for long term power loss
- Optional 5 port Power Over Ethernet (PoE) Ethernet Switch*
- Optional Redundant Rack Power Supply*
- Wall-mount or 19" equipment rack-mount

*Option module required

ORDERING INFORMATION

240 Volt ERn Enclosure

MODEL	DESCRIPTION
ERn2-W-240*	2-slot wall mount 240V Control Enclosure
ERn2-RM-240*	2-slot rack mount 240V Control Enclosure
ERn4-W-240*	4-slot wall mount 240V Control Enclosure
ERn4-RM-240**	4-slot rack mount 240V Control Enclosure

*Also avialable in 100-120 and 230V CE

** Also available in 100-120V

Control Module Options

MODEL	DESCRIPTION
P-ACP	Paradigm Architectural Control Processor

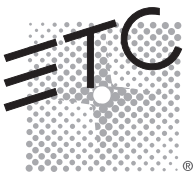### Option Modules

MODEL	DESCRIPTION
P-SPM	Paradigm Station Power Module
P-REP*	Paradigm Station Repeater Module
P-DREP*	Paradigm Dual Station Repeater Module
ERn-BM	ERn Blank Module

*For use with ERn4 only

Options and Accessories

MODEL	DESCRIPTION
ERn-Net*	ERn Ethernet Switch with Power over Ethernet
ERn-RPS	ERn Redundant Power Supply
URTO	Unison RideThru Option
UBPO*	Unison Battery Pack Option

*For use with wall mount ERn enclosures only

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SPECIFICATIONS

GENERAL
- External Processing Enclosure designed for one (ERn2) or two (ERn4) control processors plus options and accessories
- Full 2-year Warranty

MECHANICAL
- 18-gauge formed steel construction
- Fine-texture, scratch resistant, epoxy paint
- Wall-mount and 19"rack-mount variants
- Convection Cooled
- Locking door with limited access to control processor
- Tool-free module removal and installation
- 19" equipment rack-mount offers connectorized rear panel for all wiring connections
- Wall-mount offers front access wiring terminations
- Top, bottom and side knockouts for conduit entry

ELECTRICAL
- External control enclosure rated for 240 Volts, single phase configurations, 20 Amps maximum input
- 100-120 Volt UL and 230 Volt CE, single phase configurations available
- Completely pre-wired by the manufacturer
- Designed to support the following wire terminations
  - AC (single phase)
  - 24VDC (2-16AWG)
  - Echelon® LinkPower®
  - (2) configurable DMX512A ports
  - RS232 Bi-directional serial
  - CAT5/5e UTP Ethernet
  - Contact I/O, 4in/4out (14-26AWG)
    - Contact output rated 1A@30vDC
- Contractor supplied input and control wiring
- Factory provided connectors for wiring terminations
- UL and cUL LISTED

THERMAL
- Ambient room temperature: 0-40°C / 32-104°F
- Ambient humidity: 10-90% non-condensing

RACK OPTIONS AND ACCESSORIES

CONTROL PROCESSORS
- Paradigm® Architectural Control Processor (P-ACP)

STATION POWER MODULES
- Station Power Module (P-SPM)
  - Provides Echelon LinkPower for up to 32 Stations
  - Provides 24V auxiliary power for interface and touchscreen stations
  - Provides 1640 feet (500 meters) of station bus from the DRd enclosure
- Station Bus Repeater. (P-REP)
  - Extends Station bus length by an additional 1640 feet (500 meter) segment
  - Accommodates up to 30 additional stations (maximum 62 stations per Processor)
  - Wall and rack mount versions available for mid-span insertion
- Station Bus Dual Repeater (P-DREP)
  - Extends the station Network bus by two additional 1640 feet (500 meter) segments
  - Accommodates up to 30 additional stations (maximum 62 stations per Processor)
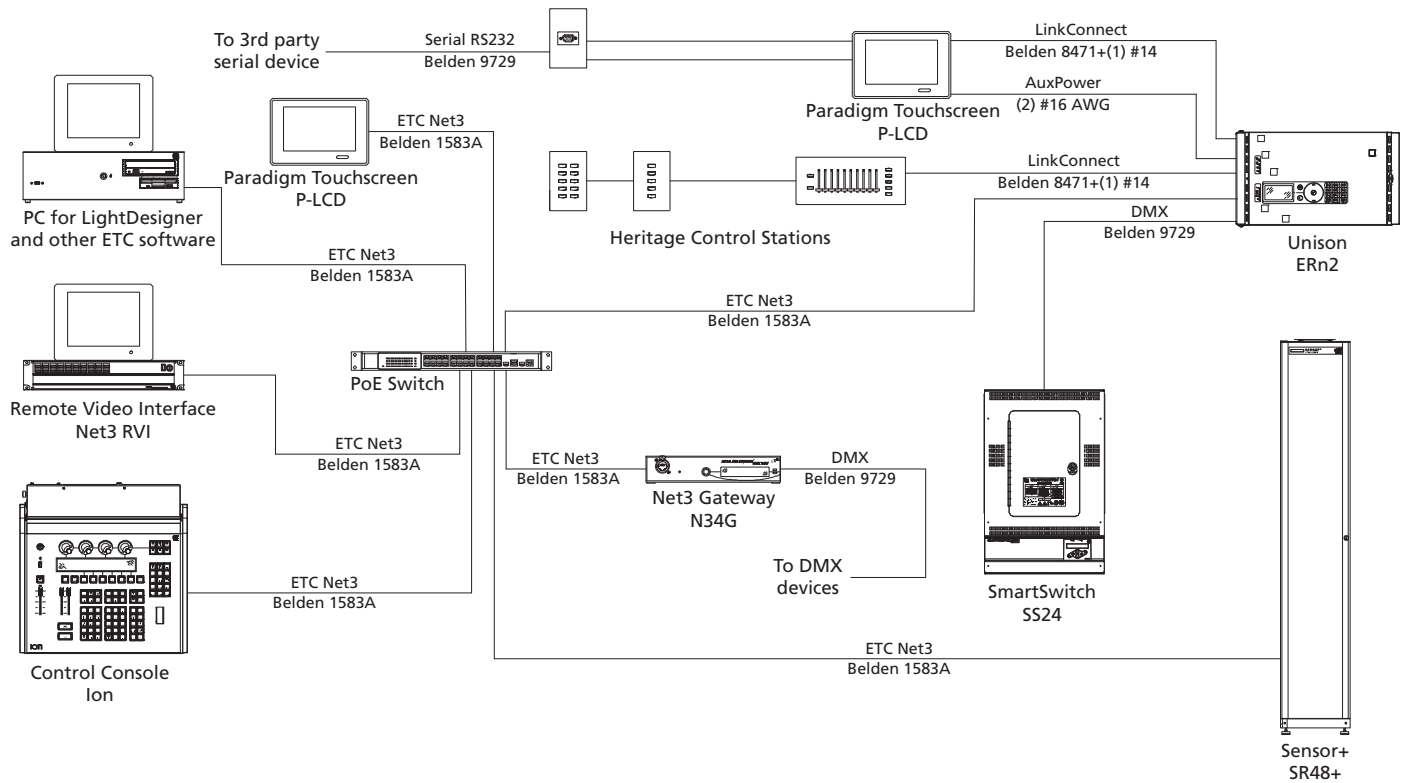 - Wall and rack mount versions available for mid-span insertion

OPTION MODULES
- Ethernet Switch (ERn-NET)
  - Five port Ethernet switch with four ports supplying Power over Ethernet (PoE)
  - 100BaseTX 802.3af PSE compliant
  - For use in wall mount ERn only
- Redundant Power Supply (ERn-RPS)
  - Seamless power for control processors upon failure or removal of the primary power supply
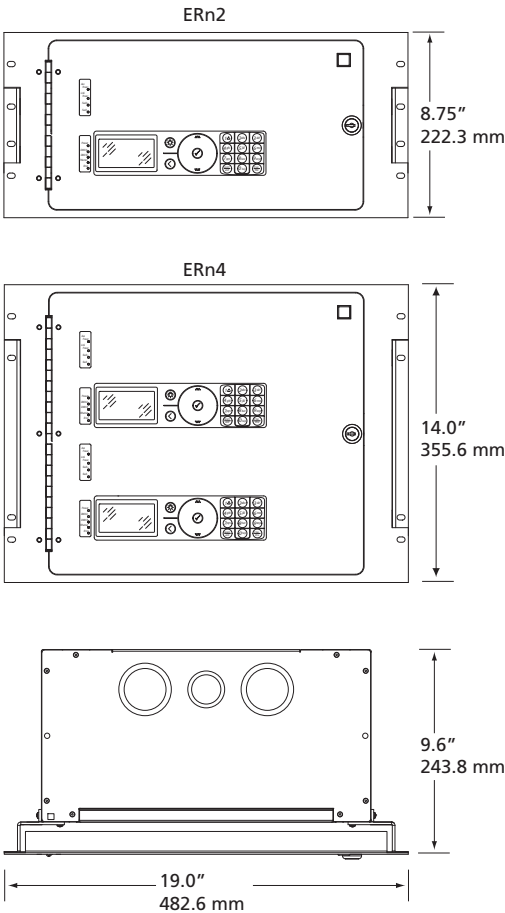 - Front panel indicator for RPS status

ACCESSORIES
- Unison RideThru Option (URTO)
  - Short term power back-up of control electronics for at least 10 seconds during short power outages
  - Automatically engages when power is lost
  - Recharges during normal power operation
- Unison Battery Pack Option (UBPO)
  - Long term power back-up of control electronics for at least 90 minutes
  - Automatically engages when power is lost
  - Recharges during normal power operation
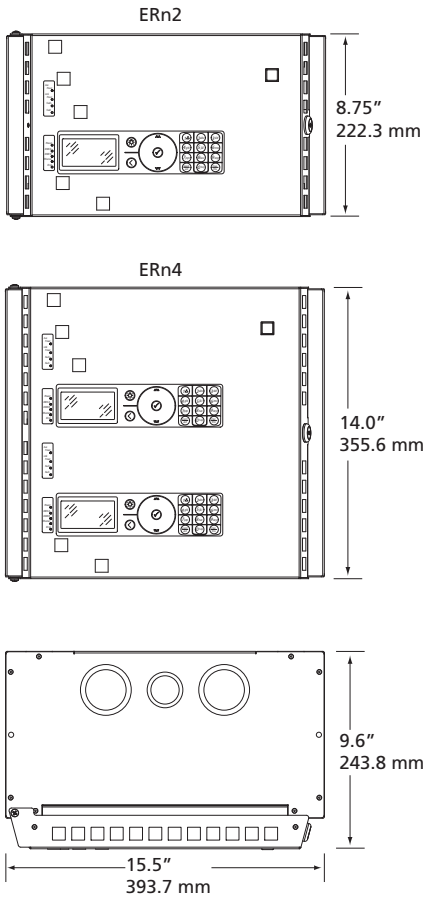
TYPICAL SYSTEM RISER – PARADIGM CONTROL

To 3rd party serial device — Serial RS232 Belden 9729

PC for LightDesigner and other ETC software

Paradigm Touchscreen P-LCD

ETC Net3 Belden 1583A

Paradigm Touchscreen P-LCD

LinkConnect Belden 8471+(1) #14

AuxPower (2) #16 AWG

LinkConnect Belden 8471+(1) #14

Heritage Control Stations

DMX Belden 9729

Unison ERn2

ETC Net3 Belden 1583A

Remote Video Interface Net3 RVI

PoE Switch

ETC Net3 Belden 1583A

ETC Net3 Belden 1583A

ETC Net3 Belden 1583A

Net3 Gateway N34G

DMX Belden 9729

To DMX devices

SmartSwitch SS24

Control Console Ion

ETC Net3 Belden 1583A

ETC Net3 Belden 1583A

Sensor+ SR48+

PHYSICAL

ERn Rack Mount

ERn Wall Mount

ERn2

ERn2

8.75"
222.3 mm

8.75"
222.3 mm

ERn4

ERn4

14.0"
355.6 mm

14.0"
355.6 mm

9.6"
243.8 mm

9.6"
243.8 mm

19.0"
482.6 mm

15.5"
393.7 mm

ERn Dimensions*

MODEL	HEIGHT		WIDTH		DEPTH	
	inches	mm	inches	mm	inches	mm
ERn2-W-240	8.75	223	15.5	394	9.6	244
ERn2-RM-240	8.75	223	19.0	483	9.6	244
ERn4-W-240	14.0	356	15.5	394	9.6	244
ERn4-RM-240	14.0	356	19.0	483	9.6	244

ERn Weights*

MODEL	WEIGHT		SHIPPING WEIGHT	
	lbs	kgs	lbs	kgs
ERn2-W-240	15	6.80	20	9.08
ERn2-RM-240	20	9.07	21	9.53
ERn4-W-240	20	9.07	25	11.34
ERn4-RM-240	25	11.34	29	13.15

*Weights and dimensions typical