



Type(s)

Project

Date

Notes

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

- Houses of worship
- Hotels
- Resorts
- Convention centers
- Theaters
- 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 stations where you need them
- Use of low-cost, easy-to-install Cat5/5e cable with PoE to connect touchscreen stations and other devices to a networked Paradigm system
- Wall-mount or rack-mounted in a 19 in equipment rack
- Optional Redundant Rack Power Supply[†]
- **Wall-Mount ERn Enclosures Only^{*}**
 - Optional 5-port Power over Ethernet (PoE) Ethernet Switch^{*}

ORDERING INFORMATION

100–120 Volt ERn Enclosure

MODEL	DESCRIPTION
ERn2-W-__ ¹	Single Processor Control Enclosure Wall-Mount
ERn2-RM-__ ¹	Single Processor Control Enclosure Rack-Mount
ERn4-W-__ ¹	Dual Processor Control Enclosure Wall-Mount
ERn4-RM-__ ¹	Dual Processor Control Enclosure Rack-Mount
ERn4-W-__-S ^{1,2}	Single Processor Enclosure Wall-Mount with P-TS7 touchscreen opening

¹ Available for 100 V, 120 V, 230 V and 240 V options. Enter the desired voltage in the blank space when ordering (for example ERn4-W-120). ERn4-RM is not available in 230 V variant.

² P-TS7 purchased separately

Modules

MODEL	DESCRIPTION
P-ACP [†]	Paradigm Architectural Control Processor
P-SPM-E	Paradigm Station Power Module
ERn-BM	ERn Blank Module

[†] One required per enclosure, the use of two are possible with ERn4 dual processor variant

Option Modules 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 BatteryPack Option

^{*} Compatible with wall-mount (W) ERn enclosures only

[†] Not compatible with the ERn4 single processor enclosure



SPECIFICATIONS

GENERAL

- External processing enclosure designed for one ERn2 or two ERn4 control processors plus options and accessories
- Full two-year warranty

MECHANICAL

- 18-gauge formed steel construction
- Fine-texture, scratch-resistant epoxy paint
- Wall-mount and 19 in rack-mount variants
- Rack-mount enclosure sizes:
 - ERn2: 5 rack units
 - ERn4: 8 rack units
- Convection-cooled
- Locking door with limited access to control processor
- Tool-free module removal and installation
- 19 in equipment-rack mount variant offers connectorized rear panel for all wiring connections
- Wall-mount variant offers front access wiring terminations
- Top, bottom, and side knockouts for conduit entry
- Optional variant with field installed touchscreen control station

ELECTRICAL

- External processing enclosure rated for 100 V, 120 V, 230 V (CE), or 240 V (UL) single phase configurations, 3.5 A maximum draw at 120 V
- Completely factory pre-wired
- Supports the following wire terminations:
 - AC (single phase)
 - 24 VDC (35–1.5 mm² [2–16 AWG])
 - LinkConnect
 - Two configurable DMX512–A ports
 - RS232 Bi-directional serial
 - Cat5/5e UTP Ethernet
 - Contact I/O, 4in/4out (2.5–0.2 mm² [14–26 AWG])
 - Contact output rated 1 A at 30 VDC
- Contractor-supplied input and control wiring
- Factory-provided connectors for wiring terminations
- cULus Listed, CE compliant

THERMAL

- Ambient temperature: 0°C to 40°C (32°F to 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-E)
 - Provides Echelon® LinkPower for up to 63 stations
 - Provides 24 V auxiliary power for interface and touchscreen stations
 - Provides 500 m (1,640 ft) of station bus from the ERn enclosure

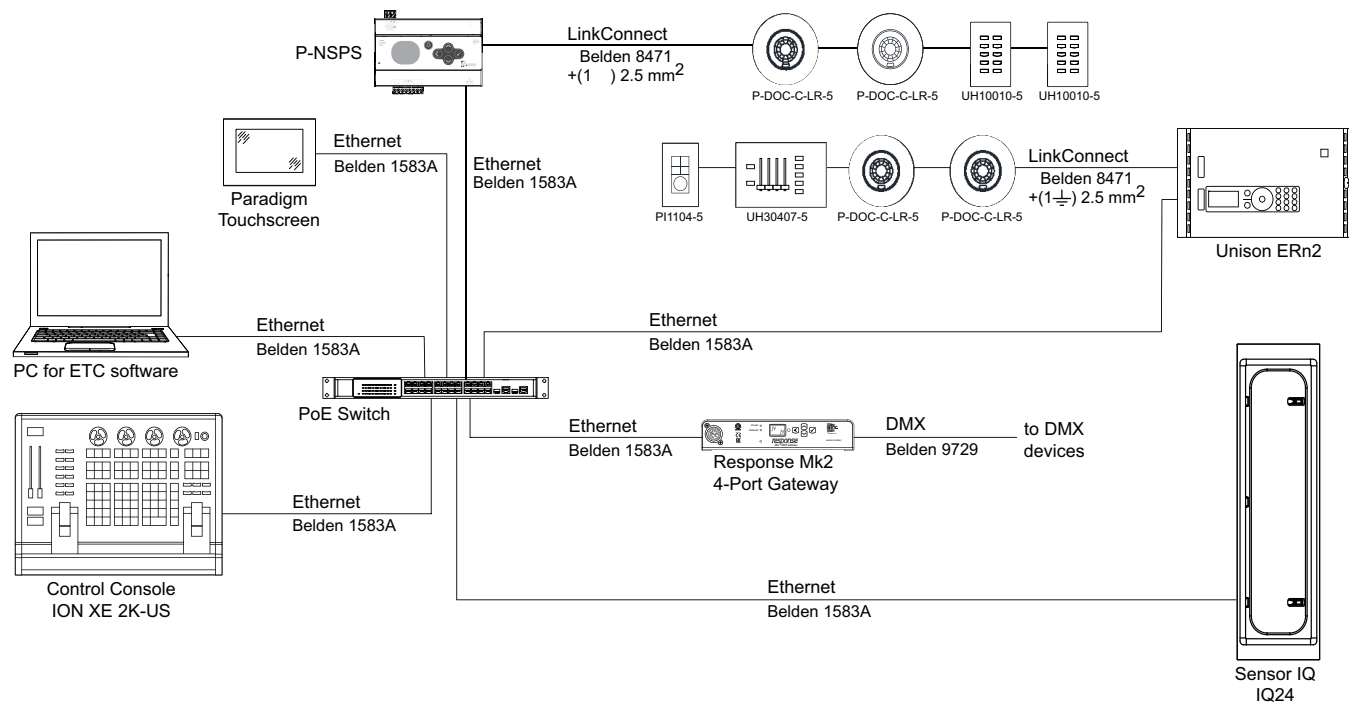
OPTION MODULES

- 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 (not compatible with the ERn4 single processor enclosure)
- 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
 - Not compatible with the ERn4 single processor enclosure

ACCESSORIES

- Unison RideThru Option (URTO)
 - Short-term power backup 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 backup of control electronics for at least 90 minutes
 - Automatically engages when power is lost
 - Recharges during normal power operation
 - For use with the wall-mount ERn only

TYPICAL SYSTEM RISER – PARADIGM CONTROL

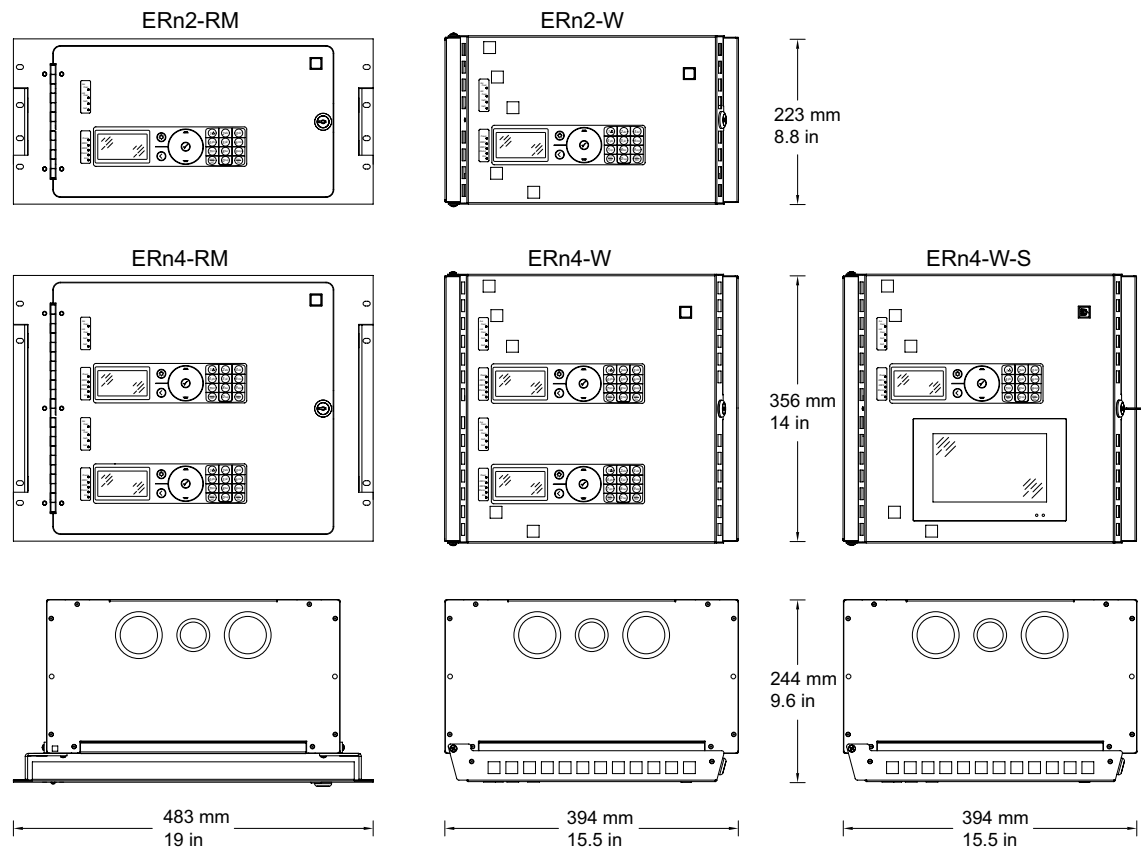


ETC

Unison ERn External Control Enclosure*

Unison Control Series

PHYSICAL



ERn Dimensions[†]

MODEL	HEIGHT		WIDTH		DEPTH	
	mm	in	mm	in	mm	in
ERn2-W	223	8.8	394	15.5	244	9.6
ERn2-RM	223	8.8	483	19.0	244	9.6
ERn4-W/ W-S	356	14.0	394	15.5	244	9.6
ERn4-RM	356	14.0	483	19.0	244	9.6

ERn Weights[†]

MODEL	WEIGHT		SHIPPING WEIGHT	
	kg	lb	kg	lb
ERn2-W	6.8	15	9.1	20
ERn2-RM	9.1	20	9.6	21
ERn4-W/ W-S	9.1	20	11.4	25
ERn4-RM	11.4	25	13.2	29

[†]Weights and dimensions typical

