

Type(s)  
Project  
Date  
Notes

**GENERAL INFORMATION**

The Response 0-10 V Gateway accepts streaming ACN (sACN) or DMX control input to provide 24 outputs of 0-10 V control. It is ideal for both retrofit and new power-control system installations that require four-wire LED drivers and fluorescent ballasts. The Gateway also accepts a contact input to set each channel's output to a programmed level for use in UL924 emergency lighting applications.

**APPLICATIONS**

- Houses of worship
- Hotels
- Convention centers
- Meeting rooms
- House lighting
- Museums
- Themed environments

**FEATURES**

- 24 independent 0-10 V control outputs
- DMX or sACN control input
- Configurable dimming curve per output
- Contact input for emergency lighting
- Onboard configuration using four-button interface
- Remote configurable using Concert Software.
- Onboard display for status and configuration
- Power and network status indicators
- 18–24 vDC power input
- UL 924 LISTED for emergency lighting applications

**ORDERING INFORMATION**

**0-10V Gateway**

MODEL	DESCRIPTION
RSN-LV	Response 0-10 V Gateway

**Gateway Accessories**

MODEL	DESCRIPTION
PS-DIN24	24 vDC DIN rail Gateway Power Supply

**Mounting Accessories**

MODEL	DESCRIPTION
DIN-RM	DIN rail Rack Mount Kit
DIN14	Small DIN rail Enclosure - Vertical
DIN14-H	Small DIN rail Enclosure - Horizontal
DIN28	Large DIN rail Enclosure

**Related Products**

MODEL	DESCRIPTION
RSN-DMX4-DIN	Response MK2 4-port Gateway - DIN rail
RSN-DALI	Response DALI Gateway
RSN-IO-DIN	Response Analog IO Gateway



## SPECIFICATIONS

### FUNCTIONAL

- Supports sACN control input (ANSI E1.31)
- Supports USITT DMX512-A control input (ANSI E1.11)
- Supports 0–10V sink control (IEC60929 Annex E)
- Supports per-address- or per-universe-level priority
- Configurable dimming curve per channel
  - Linear
  - Mod-Square
  - Custom

### MECHANICAL

- Intuitive four-button interface
- Onboard display for identification, status and configuration
- Extruded aluminium enclosure
- Network and power activity indicators
  - Blue power indicator
  - Green and orange network activity indicator
- Female RJ45 for connection to lighting network
- Pluggable terminals provided for all wiring connections
- Selection switch for emergency input configuration
  - Normally Open, Normally Closed or Off
- Trim pot for configuration of 0-10 V maximum voltage, +/- 1V
- 10 unit DIN enclosure
- Mounting complies with DIN43880 (35/7.5 rail)

### ENVIRONMENTAL

- Ambient operating temperature: 0°–40° C (32°–104° F)
- Operating humidity: 5–95% non-condensing
- Storage temperature: -40°–70° C (-40°–158° F)

### ELECTRICAL

- Compliant with IEEE 802.3i for 10BASE-T, 802.3u for 100BASE-TX
- 18-24 VDC power input using two-pin pluggable connection
- Maximum 18 W current draw at 18-24 V
- 24 0–10 V outputs, each supporting voltage sink connections, 400 mA maximum current per output

### DMX INPUT PORT

- Optically-isolated input from the Gateway electronics
- Withstands fault voltages of up to 250 VAC
- Integrated DMX/RDM termination

### CONFIGURATION

- Onboard configuration using intuitive four-button interface
- Configuration provided using Concert software
- Configurable starting address
- Up to four sources may be combined to the network with each source or address allowed an independent priority

### REGULATORY AND COMPLIANCE

- cETLus Listed
- CE compliant
- EAC certified
- RoHS compliant
- WEEE
- UL 924 LISTED for emergency lighting applications

## ADDITIONAL INFORMATION

### DMX512

Often shortened to DMX (Digital Multiplex), this communication protocol is used mainly to control dimmers and multi-parameter fixtures. A universe of DMX is defined as 512 channels. DMX sends a nearly continuous stream of level information for each control channel. It is a form of RS-485 digital serial communication.

### sACN

Streaming ACN (ANSI E1.31), sends DMX-style control over TCP/IP networks. It provides a fast and efficient mechanism to transport the well-understood DMX protocol over Ethernet using an industry-standard protocol.

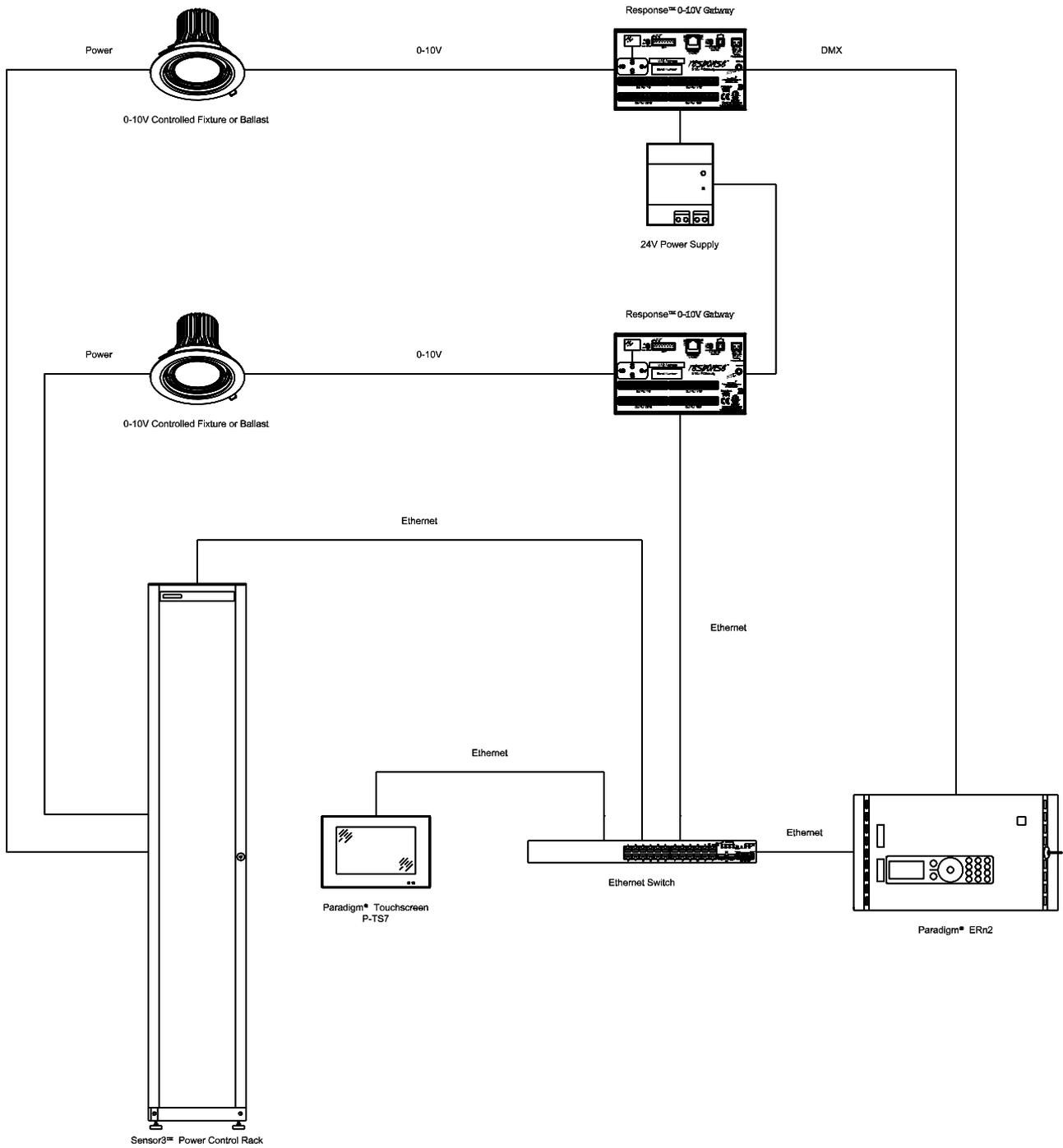
### ACN

Architecture for Control Networks (ANSI E1.17) is a standard for high-speed bidirectional communication over TCP/IP on Ethernet network infrastructure. ACN is an open suite of protocols used between network devices for the purposes of greater and more adaptive control.

### NET3

ETC's enhanced implementation of the standard ACN Protocol Suite (ANSI E1.17 and E1.31) including additional communication protocols for specialized applications and support of legacy systems.

RISER DIAGRAM



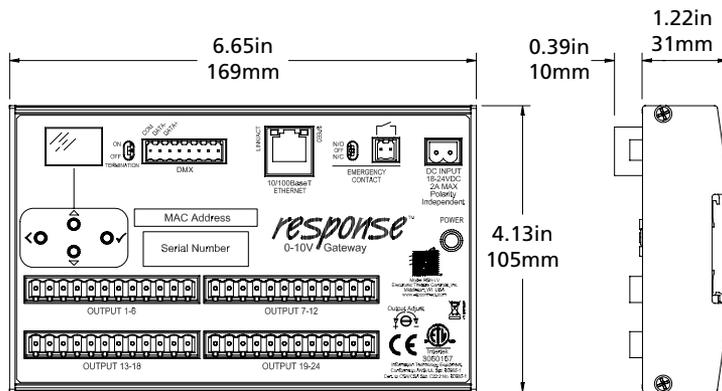
PHYSICAL

0-10V Gateway Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	in	mm	in	mm	in	mm
RSN-LV	1.22	31	6.65	169	4.13	105

0-10V Gateway Weights

MODEL	WEIGHT		SHIPPING WEIGHT	
	lb	kg	lb	kg
RSN-LV	1.0	0.45	1.5	0.68



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