The Response 0-10V Gateway accepts streaming ACN (sACN) or DMX control input to provide 24 outputs of 0-10V 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 emergency lighting applications.

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

**FEATURES**
- 24 independent 0-10V control outputs
- DMX or sACN control input
- Configurable dimming curve per output
- Configurable high-end trim
- Contact input for emergency lighting
- Onboard configuration using four-button interface.
- Onboard display for status and configuration
- Power and network status indicators
- 18-24vDC power input

### ORDERING INFORMATION

**0-10V Gateway**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSN-LV</td>
<td>Response 0-10V Gateway</td>
</tr>
</tbody>
</table>

**0-10V Gateway Accessories**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>PS-DIN24</td>
<td>24vDC DIN-Rail Gateway Power Supply</td>
</tr>
</tbody>
</table>

**Related Products**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>N31G-DIN</td>
<td>One-Port DMX/RDM Gateway - DIN-rail Mount</td>
</tr>
<tr>
<td>N34G-DIN</td>
<td>Four-Port DMX/RDM Gateway - DIN-rail Mount</td>
</tr>
<tr>
<td>N31G-F</td>
<td>One-Port DMX/RDM Output Gateway</td>
</tr>
<tr>
<td>N31G-M</td>
<td>One-Port DMX/RDM Input Gateway</td>
</tr>
<tr>
<td>N32G-2F</td>
<td>Two-Port DMX/RDM Output Gateway</td>
</tr>
<tr>
<td>N32G-2M</td>
<td>Two-Port DMX/RDM Input Gateway</td>
</tr>
</tbody>
</table>
**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) and 0-10V source control (ANSI E1.3)
- Supports per-address- or per-universe-level priority
- Configurable dimming curve per channel
  - Linear
  - Mod-Square
  - Custom (Future)

**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 0-10V maximum voltage, +/- 1V
- 10 unit DIN enclosure
- Mounting complies with DIN43880 (35/7.5 rail)

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

**ELECTRICAL**
- Compliant with IEEE 802.3i for 10BASE-T, 802.3u for 100BASE-TX
- 18-24vDC power input using two-pin pluggable connection
- Maximum 18W current draw at 18-24V
- 24 0-10V outputs, each supporting voltage source or sink connections, 50mA maximum current per output
- RoHS compliant (lead-free)
- CE compliant and ETL listed

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

**CONFIGURATION**
- Onboard configuration using intuitive four-button interface
- Configuration provided using Net3 Concert software (Future)
- Configurable starting address
- Up to four sources may be combined to the network with each source or address allowed an independent priority

**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.
# Response 0-10V Gateway

**Response Series**

## Physical

### 0-10V Gateway Dimensions

<table>
<thead>
<tr>
<th>MODEL</th>
<th>HEIGHT</th>
<th>WIDTH</th>
<th>DEPTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSN-LV</td>
<td>1.22 in</td>
<td>6.65 in</td>
<td>4.13 in</td>
</tr>
<tr>
<td>RSN-LV</td>
<td>31 mm</td>
<td>169 mm</td>
<td>105 mm</td>
</tr>
</tbody>
</table>

### 0-10V Gateway Weights

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WEIGHT</th>
<th>SHIPPING WEIGHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>RSN-LV</td>
<td>1 lbs</td>
<td>1.5 lbs</td>
</tr>
<tr>
<td>RSN-LV</td>
<td>.45 kgs</td>
<td>.68 kgs</td>
</tr>
</tbody>
</table>

---

**Corporate Headquarters**
- 3031 Pleasant View Rd, PO Box 620979, Middleton WI 53562 0979 USA • Tel +1 608 831 4116 • Fax +1 608 836 1736
- London, UK • Unit 26-28, Victoria Industrial Estate, Victoria Road, London W3 6UU, UK • Tel +44 (0)20 8896 1000 • Fax +44 (0)20 8896 2000
- Rome, IT • Via Pieve Torina, 48, 00156 Rome, Italy • Tel +39 (06) 32 111 683 • Fax +44 (020) 8752 8486
- Holzkirchen, DE • Ohmstrasse 3, 83607 Holzkirchen, Germany • Tel +49 (80 24) 47 00-0 • Fax +49 (80 24) 47 00-3 00
- Hong Kong • Room 1801, 18/F, Tower 1 Phase 1, Enterprise Square, 9 Sheung Yuet Road, Kwoloon Bay, Kwoloon, Hong Kong • Tel +852 2799 1220 • Fax +852 2799 9325

**Web** • www.etcconnect.com • Copyright ©2015 ETC. All Rights Reserved. All product information and specifications subject to change. 4267L1100 Rev. A USA 09/15

---

**Figure**: Response 0-10V Gateway dimensions and weights.