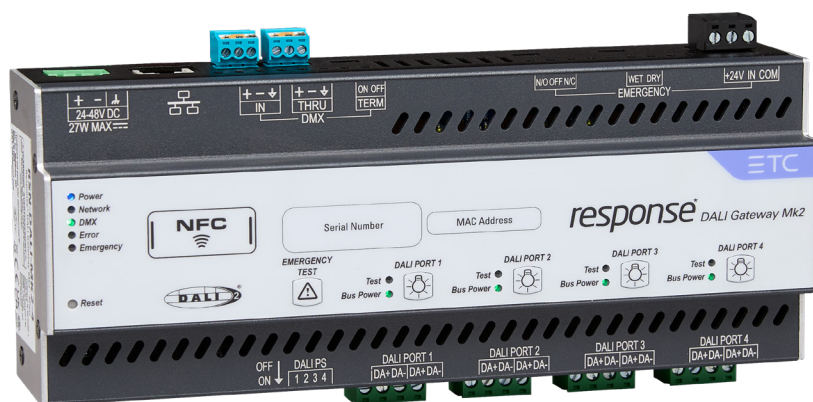




Type(s)

Project

Date

Notes

GENERAL INFORMATION

The Response DALI Gateway Mk2 accepts DMX and sACN control input to provide DALI control output for up to four DALI subnets of up to 64 devices each. It is ideal for both retrofit and new control system installations that require DALI based control.

APPLICATIONS

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

FEATURES

- Four DALI subnet ports with integrated DALI bus power supply per port
- Control of up to 64 control gear per subnet
- DMX and sACN control input
- Supports DALI device types DT6 and DT8-Tc
- Configure using built-in web user interface, Set Light mobile application, and/or ETC Concert software
- 24–48 VDC power input
- Contact input for emergency lighting with local test button
- UL 924 LISTED for emergency lighting applications
- DALI-2 Certified

REGULATORY AND COMPLIANCE

- cETLus Listed
- CE Compliant
- UKCA Compliant
- RoHS Compliant
- WEEE
- UL 924 LISTED for emergency lighting applications
- GTIN: 199874645612
- IEC 62386 - DALI-2
 - 63286-101:2022
 - 63286-103:2022

ORDERING INFORMATION

DALI Gateway

MODEL	DESCRIPTION	PART NUMBER
RSN-DALI-MK2-4	Response DALI Gateway Mk2 - Four Port	4267A1404

Gateway Accessories

MODEL	DESCRIPTION	PART NUMBER
HDR-60-24	24 VDC DIN rail Gateway Power Supply	PS537
HDR-100-48	48 VDC DIN rail Gateway Power Supply	PS518

Mounting Accessories

MODEL	DESCRIPTION	PART NUMBER
DIN-RM	DIN rail Rack-Mount Kit	4267A1015
DIN14-L	Small DIN rail Enclosure - L-shaped voltage barrier	7180K1019-L
DIN28	Large DIN rail Enclosure - Vertical	7180K1018
DIN28-H	Large DIN rail Enclosure - Horizontal	7180K1018-H

Related Products

MODEL	DESCRIPTION	PART NUMBER
RSN-DMX4-DIN	Response MK2 4-Port Gateway - DIN rail	4268A1244
RSN-LV R3	Response 0–10 V Gateway	4267A1202
RSN-IO-DIN	Response Analog IO Gateway	4267A1005



SPECIFICATIONS

FUNCTIONAL

- Supports USITT DMX512-A control input (ANSI E1.11)
- Supports ANSI E1.31 Streaming ACN (sACN) control input
- Supports DALI control for up to four DALI subnets
- Integrated DALI bus power supplies selectable for each port
- Supports DALI device types DT6 and DT8-Tc
- Supports original DALI and DALI-2 control gear
- Supports feedback from control gear
- Supports addressing and grouping of control gear
- Support for Luminaire data (Part 251)
- Support for Energy data (Part 252)
- Support for Diagnostics data (Part 253)
- Web User Interface
 - Internal web server accessible via Ethernet port
 - View gateway status
 - Configuration of port and gateway settings
 - Patch of control gear to sACN/DMX addressing
 - Firmware updates
- DALI Single Master Application Controller

MECHANICAL

- Durable aluminium housing
- Front panel port test buttons
- Front panel LED indicators for Power, Network, DMX, Error, Emergency Status, Port Test Mode, Port Bus Power
- Wet/Dry contact switch for emergency input
- Selection switch for emergency input configuration
 - Normally Open, Normally Closed, or Off
- Local Push To Test button for emergency input
- Selection switch for DMX input termination
- Selection switch for DALI bus power supply enable/disable per port
- Pluggable terminals provided for all wiring connections
- 12 unit DIN enclosure
- Designed for installation on 35 mm symmetric DIN rail compliant with DIN EN60715 (TS-35/7.5 and TS-35/15 rail)

ELECTRICAL

- Compliant with IEEE 802.3i for 10BASE-T, 802.3u for 100BASE-TX
- Removable pluggable connections for the following:
 - DC Power input on a three position pluggable connector, 24-48 V, 27 W maximum (+, -, ground).
 - Supports ESTA DMX512-A input and throughput on three position removable pluggable connectors
 - DALI bus port (subnet) connections on a four position removable pluggable connector (one subnet per port)
 - UL 924 emergency contact input on a three position removable pluggable connector
- Integrated DALI bus power supply (one per DALI port/subnet)
 - Maximum supply current: 250 mA
 - Guaranteed supply current: 130 mA
 - Short circuit proof
 - All ports are isolated
 - Shutdown mechanism in use
- Total power draw 27 W

DMX INPUT PORT

- Optically-isolated input from the gateway electronics
- Withstands fault voltages of up to 250 VAC
- Integrated DMX termination selection switch

CONFIGURATION

- Local configuration via NFC using Set Light app
- Remote configuration using ETC Concert software and/or local web interface
- Configurable starting address with support for custom patch tables allowing non-sequential addressing
- Each DALI subnet can be patched to a unique sACN universe. Each universe can merge up to four sACN sources.
- Able to merge DMX input and multiple sACN inputs

ENVIRONMENTAL

- Ambient operating temperature: 0°C to 40°C (32°F to 104°F)
 - HVAC systems must maintain the specified ambient temperature at the gateway at all times
- Maximum 45 BTU/Hr output
 - BTU calculations done under worst case conditions with full load
- Operating humidity: 5%–95% non-condensing
- Storage temperature: -40°C to 70°C (-40°F to 158°F)

ADDITIONAL INFORMATION

DALI-2

DALI-2 is a certification program operated by the DALI Alliance ensuring compliance with the Digital Addressable Lighting Interface standard (IEC 62386). DALI is a bi-directional communications protocol that is used to control and communicate with devices on the bus.

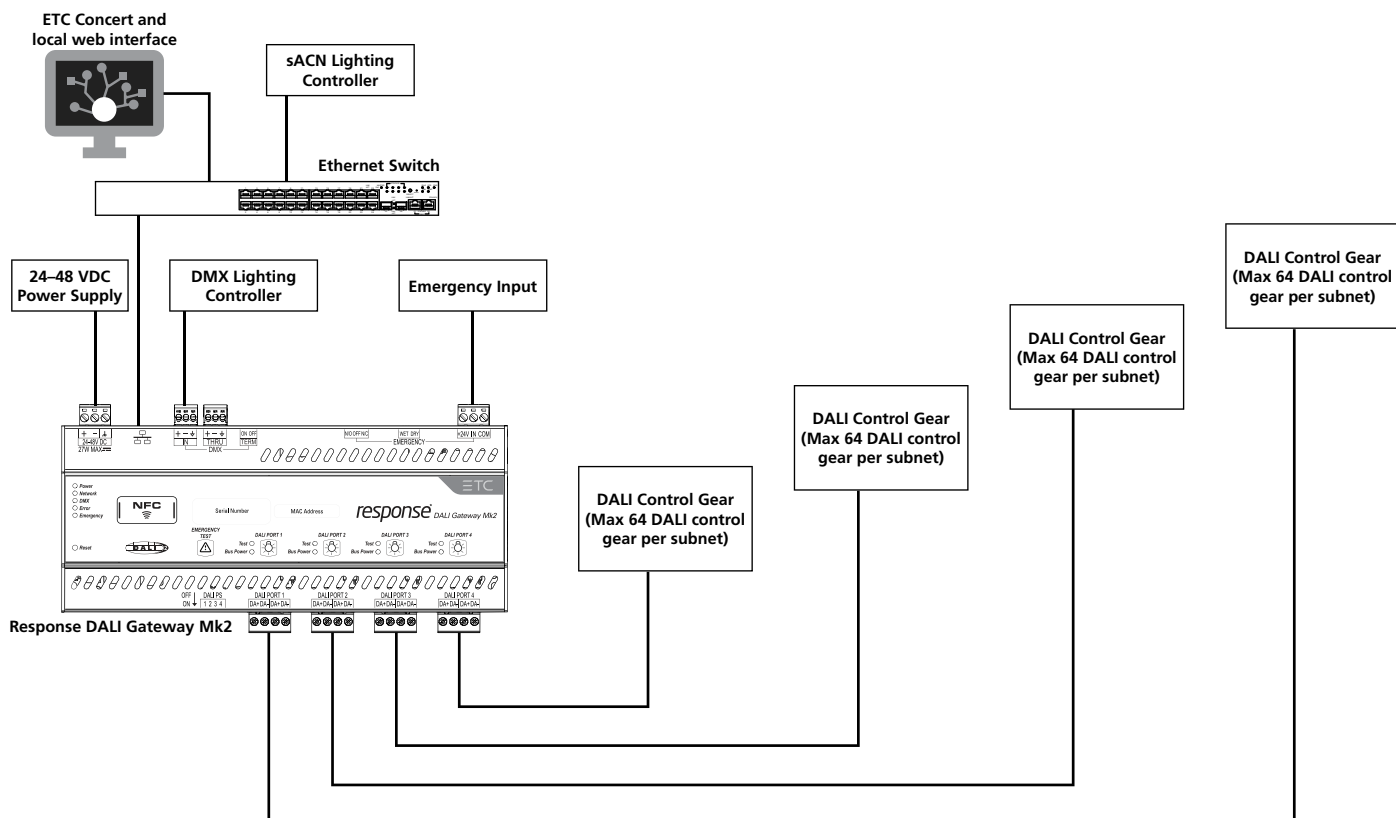
DMX512

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.

EXAMPLE SYSTEM RISER



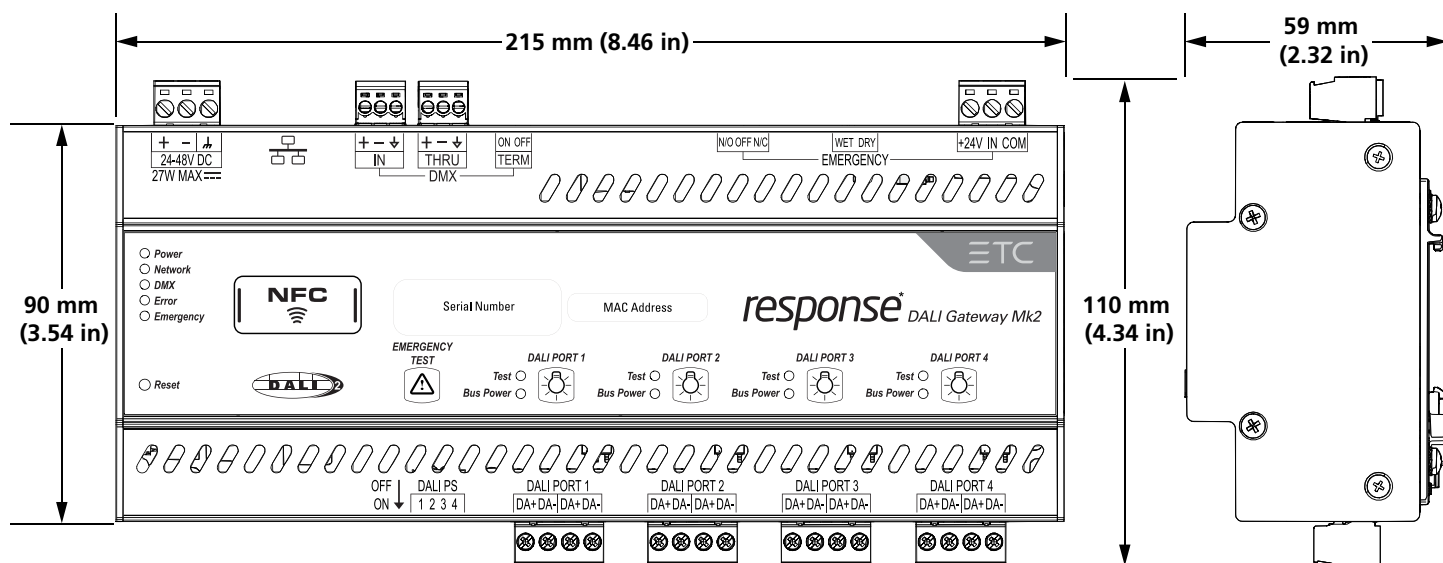
PHYSICAL

DALI Gateway Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	mm	in	mm	in	mm	in
RSN-DALI-MK2-4	90	3.54	215	8.46	59	2.32

DALI Gateway Weights

MODEL	WEIGHT		SHIPPING WEIGHT	
	kg	lb	kg	lb
RSN-DALI-MK2-4	0.8	1.6	1.2	2.6



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