



Type(s)  
Project  
Date  
Notes

**GENERAL INFORMATION**

The Elaho Expansion Bridge lets you build larger systems and add more devices while allowing you to control and configure everything from a single location. With the Expansion Bridge, Elaho control systems can contain up to four Elaho segments - each with their own power supply and Elaho devices. Segments support up to 16 stations or sensors and up to 16 output devices each, increasing the control system capacity to 64 stations and sensors as well as 64 output products. Each bridge may contain a maximum of 16 spaces with up to 16 zones per space. Connecting a wireless access point to the Expansion Bridge allows the ElahoAccess mobile app to connect to the Elaho control system.

**APPLICATIONS**

- Sports venues
- Hospitality
- Healthcare facilities
- Conference and meeting rooms
- Lobby spaces
- Retail
- Education

**FEATURES**

- Combines up to four Elaho segments to create larger Elaho control systems
- Allows for connection to ElahoAccess Mobile App via a wireless access point
- Two-wire topology-free system gives you the freedom to easily place stations wherever they are needed

**REGULATORY AND COMPLIANCE**

- cULus Listed
- CE Compliant

**ORDERING INFORMATION**

**Product**

MODEL	DESCRIPTION
EEB	Expansion Bridge

**Mounting Accessories**

MODEL	DESCRIPTION
-DIN	Low-Voltage DIN-Rail Cover Kit

**Power Requirements**

Bus Power:	Not required
Auxiliary Power:	100 mA*

\*Not required if using PoE

## SPECIFICATIONS

### FUNCTIONAL

- Combines up to four Elaho Control Segments to create a single larger Elaho control system with the following maximums:
  - 4 Power Supplies (as needed based on system size)
  - 64 Control Products (Stations, Sensors and Interfaces)
  - 64 Output Products (Zone Controllers, Panel Power Products, DMX Scene Controller, EEI)
  - 16 Zones per space
  - 16 Spaces per bridge
- Connects to a wireless access point to allow the ElahoAccess Mobile App to connect to the Elaho system via Wi-Fi

### MECHANICAL

- Intuitive four-button interface and onboard display for identification, status and configuration
- Five unit wide DIN Enclosure complies with DIN43880 (35/7.5 rail)
- Constructed of injection-molded, black ABS plastic

### ELECTRICAL

- Connects four, two-wire control networks through low-voltage Class 2 wiring
  - Topology-free wiring over Belden 8471 or equivalent and one #14 ESD drain wire
  - Two #16 AWG wires for 24 VDC auxiliary power when required
  - Supports optional use of Belden 1583A or equivalent Ethernet control wire when used with Cat5 termination accessories
  - Wiring may be bus, loop, homerun or any combination of these
  - Supports up to 500 m (1,640 ft) of control wiring
  - Up to 300 m (1,000 ft) using Cat5
- Compliant with IEEE 802.3i for 10BASE-T, 802.3u for 100BASE-TX and 802.3af for Power over Ethernet
- MicroSD card slot for firmware maintenance

### THERMAL

- Ambient room temperature: 0° to 50°C (32° to 122°F)
- Ambient humidity: 5–95% non-condensing

## ELAHO FAMILY PRODUCTS

### Bus Power Supplies

MODEL	DESCRIPTION
E-SPS	6 U Room Station Power Supply, Knockout Mount
E-SPS-DIN	16 U DIN rail Station Power Supply with 24 V Aux
E-APS	24 V Aux Power Supply, Knockout Mount

### ElahoTouch

MODEL	DESCRIPTION
ETS	ElahoTouch Controller Mk2

### Elaho Stations

MODEL	DESCRIPTION
E1001	Inspire One Button Station
E1002	Inspire Two Button Station
E1004	Inspire Four Button Station
E1006	Inspire Six Button Station
E1008	Inspire Eight Button Station
E1104	Inspire Four Button with Fader Station
EPS05	Preset Station - 5 Button
EPS10	Preset Station - 10 Button
EPSKS	Keyswitch Station
E-ATC	TimeClock

### Elaho Responsive Controls

MODEL	DESCRIPTION
ELS	Light Sensor
EOCC	Ceiling-Mount PIR Occupancy Sensor
EVAC	Ceiling-Mount PIR Vacancy Sensor
E-DOC-C	Ceiling-Mount Dual Tech Occupancy Sensor
E-DVAC-C	Ceiling-Mount Dual Tech Vacancy Sensor
E-DOC-W	Wall-Mount Dual Tech Occupancy Sensor
E-DVAC-W	Wall-Mount Dual Tech Vacancy Sensor
E-DOC-SM1	Switch-Mount Dual Tech Sensor - One Button
E-DOC-SM2	Switch-Mount Dual Tech Sensor - Two Button

### Elaho Interfaces

MODEL	DESCRIPTION
EACC	ElahoAccess Interface
EEB	Expansion Bridge
EDMXC	DMX Scene Controller
EEl	Elaho-Echoflex Interface
ECII	Contact Input Interface
ECOI	Contact Output Interface
EDRI	Demand Response Interface
EBl	BACnet Interface
EII	Integration Interface

### Zone Controllers

MODEL	DESCRIPTION
ERC-G2	One Zone Relay Controller
EDRC-G2	Two Zone Relay Controller
ELD-G2	One Zone 0-10 V Controller
EDLD-G2	Two Zone 0-10 V Controller
ESSC-G2	One Zone SmartSpace Controller
EDSSC-G2	Two Zone SmartSpace Controller
ELVD-G2	600-Watt Phase Adaptive Dimmer (120 V)
ELVD-277-G2	600-Watt Phase Adaptive Dimmer (277 V)
ELVD-G2-MLV	600-Watt Forward Phase Dimmer (120 V)
ELVD-277-G2-MLV	600-Watt Forward Phase Dimmer (277 V)

### Room Controllers

MODEL	DESCRIPTION
ERMCT4-G2	Four Zone Room Controller
ERMCT4-G2	Four Zone Room Controller with TimeClock
ERMCT8-G2	Eight Zone Room Controller
ERMCT8-G2	Eight Zone Room Controller with TimeClock

### Panel Products

MODEL	DESCRIPTION
ERP	Elaho Relay Panel Mains Feed
ERPA	Elaho Relay Panel Mains Feed 277 V
ERP-FT	Elaho Relay Panel Feedthrough

## PHYSICAL

### Product Dimensions

MODEL	HEIGHT		WIDTH		DEPTH	
	in	mm	in	mm	in	mm
EEB	3.5	90	3.0	76	1.54	39

### Product Dimensions

MODEL	WEIGHT		SHIPPING WEIGHT	
	lb	kg	lb	kg
EEB	0.35	0.16	0.90	0.40

