

Configurable VAV Box Controllers Catalog Page

Description

The Configurable VAV Box controllers run a pre-engineered HVAC zoning sequence and provide the inputs and outputs required for this application.

The ZEC controllers contain multiple features to ensure occupant comfort.

The ZEC controllers have an optional occupancy sensing capability to switch from occupied mode to standby mode based on activity in the zone. Standby mode uses setpoints that are higher and lower than occupied mode setpoints to maximize energy savings.

The ZEC controllers also use plug-and-play technology to detect which network sensor types it is connected to.

Refer to the *Verasys® System Product Bulletin (LIT-12012342)* for important product application information.

Repair Parts

If the Configurable VAV Box controller fails to operate within its specifications, replace the unit. For a replacement unit, contact your local representative.

Selection Chart

Configurable VAV Box Controllers

Code Number	Description
LC-ZEC410-1	Configurable VAV Box controller, all fan types, stage box heating
LC-ZEC410-2	Configurable VAV Box controller, all fan types, incremental box heating
LC-ZEC410-3	Configurable VAV Box controller, all fan types, proportional SCR box heating
LC-ZEC510-1	Configurable VAV Box controller, all fan types, staged, incremental, proportional SCR box heating (selectable)

Technical Specifications

LC-ZEC410-x

Product code number	LC-ZEC410-x Series
Power supply requirement	20 VAC to 30 VAC at 50 Hz to 60 Hz, Class 2 power supply or Safety Extra-Low Voltage (SELV) at 50/60 Hz (20 VAC minimum)
Power consumption	10 VA not including external load
Ambient conditions	Ambient operating conditions: 0°C to 50°C (32°F to 122°F); 10% to 90% RH condensing Ambient storage conditions: -40°C to 85°C (-40°F to 185°F); 10% to 90% RH
Processor	RX630 Renesas® 32-bit microcontroller
Memory	1 MB flash nonvolatile memory for operating system, configuration data, and operations data storage and 512k Synchronous Random Access Memory (SRAM) for operations data dynamic memory
Mounting	On a flat surface with screws
Dimensions (height x width x depth)	165 mm x 125 mm x 73 mm (6.5 in. x 4.92 in. x 2.87 in.)
Shipping weight	0.65 kg (1.43 lb)
Compliance	United States: UL Listed, File E107041, CCN PAZX, UL 916 FCC Compliant to CFR47, Part 15, Subpart B, Class A Canada: UL Listed, File E107041, CCN PAZX7, CAN/CSA C22.2 No. 205, Signal Equipment Industry Canada Compliant, ICES-003

LCZEC510-1 (Part 1 of 2)

Product code number	LC-ZEC510-1
Power supply requirement	20 VAC to 30 VAC at 50 Hz to 60 Hz, Class 2 power supply or Safety Extra-Low Voltage (SELV) at 50/60 Hz (20 VAC minimum)
Power consumption	10 VA not including external load
Ambient conditions	Ambient operating conditions: 0°C to 50°C (32°F to 122°F); 10% to 90% RH condensing Ambient storage conditions: -40°C to 85°C (-40°F to 185°F); 10% to 90% RH
Processor	RX630 Renesas® 32-bit microcontroller

Configurable VAV Box controller





Configurable VAV Box Controllers Catalog Page (Continued)

LCZEC510-1 (Part 2 of 2)

Memory	1.5 MB flash nonvolatile memory for operating system, configuration data, and operations data storage and 512k Synchronous Random Access Memory (SRAM) for operations data dynamic memory
Mounting	On a flat surface with screws
Dimensions (height x width x depth)	165 mm x 125 mm x 73 mm (6.5 in. x 4.92 in. x 2.87 in.)
Shipping weight	0.65 kg (1.43 lb)
Compliance	United States: UL Listed, File E107041, CCN PAZX, UL 916 FCC Compliant to CFR47, Part 15, Subpart B, Class A Canada: UL Listed, File E107041, CCN PAZX7, CAN/CSA C22.2 No. 205, Signal Equipment Industry Canada Compliant, ICES-003