

# YCCS Zone/Bypass Controllers

LC-ZEC100-0, LC-BYP100-0

## Description

The YCCS Zone/Bypass controllers are application specific, factory mounted digital controllers that communicate via BACnet® Master Slave/Token Passing (MS/TP) Protocol. Both the zone and bypass controllers operate as part of a larger zoning system and provide simple zone and pressure control for the appropriate mechanical equipment.

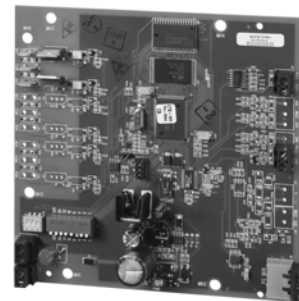
The zone controller modulates the zone damper in response to temperature variations relative to a user-defined space temperature setpoint. The bypass controller modulates a unit bypass damper to maintain supply duct static pressure setpoint.

## Features

- Factory mounted pressure sensor (for bypass controller) and actuator reduce installation time.
- The fast response actuator drives the damper from full open to full close (90°) in 60 seconds to reduce commissioning time.
- Continuous loop tuning through Pattern Recognition Adaptive Control (PRAC) technologies

## Repair Information

If the YCCS zone/bypass controller fails to operate within its specifications, replace the unit. For a replacement, contact the nearest Source 1 representative.



Zone/Bypass Controller

## Selection Chart

### Ordering Information

Code Number	Description
LC-ZEC100-0	Zone equipment controller (controller board only) for zoning applications.
LC-BYP100-0	Bypass controller (controller board only) for bypass damper control applications.

### YCCS Point Type Counts per Controller

Point Types	Zone Controller	Bypass Controller
Analog Input (AI)	AI - 1 (Resistive) Zone Temp/Occ AI-2 (Resistive) Zone Setpoint	
Binary Output (BO)	BO-1 (Triac) Actuator + BO-2 (Triac) Actuator -	BO-1 (Triac) Actuator + BO-2 (Triac) Actuator -

### Accessories

Product Code Number	Description
Y65T54-0	Transformer UL Class 2, 40 VA, 120/208/240 24 VAC
Y65F13-0	Transformer UL Class 2, 40 VA, 277/480 24 VAC

## Technical Specifications

YCCS Zone/Bypass Controllers (Part 1 of 2)	
Product Code Numbers	York Commercial Comfort System (YCCS): Zone Controller: LC-ZEC100-0 Bypass Damper Assembly: LC-BYP100-0
Power Supply Requirement	20 - 30 VAC @ 50 to 60 Hz, Class 2 power supply or Safety Extra Low Voltage (SELV) at 50/60 Hz (20 VAC minimum)
Power Consumption	Zone Damper Assembly: 3 VA (not including external loads) Bypass Assembly: 2 VA (not including external loads)
Ambient Conditions	Ambient Operating Conditions: 0 to 50°C (32 to 122°F); 10 to 90% RH noncondensing Ambient Storage Conditions: -40 to 85°C (-40 to 185°F); 10 to 90% RH
Processor	20 MHz Renesas H8S2398 processor
Memory	1 MB Flash nonvolatile memory for operating system, configuration data, and operations data storage and backup 512 k Synchronous Random Access Memory (SRAM) for operations data dynamic memory
Housing	Plastic housing material: ABS + polycarbonate UL94-5VB Protection: IP20 (IEC 60529)
Mounting	On a flat surface with screws
Dimensions (Height x Width x Depth)	140 x 140 x 25 mm (5.5 x 5.5 x 1.0 in.)
Shipping Weight	approximately 0.3 lb

## YCCS Zone/Bypass Controllers (Continued)

YCCS Zone/Bypass Controllers (Part 2 of 2)	
Compliance	<b>United States</b> UL Listed, File E107041, CCN PAZX, UL 916 FCC Compliant to CFR47, Part 15, Subpart B, Class A
	<b>Canada</b> UL Listed, File E107041, CCN PAZX7, CAN/CSA C22.2 No. 205, Signal Equipment Industry Canada Compliant, ICES-003
	<b>Europe</b> CE Mark, EMC Directive 89/336/EEC, in accordance with EN 61000-6-4 (2001) Generic Emission Standard for Heavy Industrial and EN 61000-6-2 (2001) Generic Immunity Standard for Heavy Industrial Environment
	<b>Australia and New Zealand</b> C-Tick Mark, Australia/NZ Emissions Compliant

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428517-YSD-A-0808  
Ref: LIT-1900518

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