

LCU2 Logic Controller

Self-Contained Interoperable Controller Model UCP-1

SUPERSEDES: March 23, 2011

EFFECTIVE: June 11, 2012

Job: _____ Engineer: _____

Contractor: _____ Rep: _____

Date: _____ Tag/Item #: _____

LCU2

The LCU2 is a self-contained device for controlling logic. The unit can control up to eight logic zones and supports up to eight switches that enable occupants to override system control of the logic. The LCU2 also supports a photosensor for control of exterior lighting.

Overview

The LCU2 controls each logic circuit through digital outputs in the form of triacs. Digital inputs from dry contact switches can override automatic control of logic zones. The LCU2 provides a universal input for photosensor input.

Features

- Configurable Logic Zones
- Controls up to 8 logical zone outputs based on any of the inputs.
- Multiple units can be networked together
- Scheduled on and off times
- LONWORKS interface to building automation systems
- Occupancy Inputs for individual zones
- Automatic configuration through the LCI
- Photosensor operation (one per system)

Specifications

Electrical

Inputs

Photosensor

- Cabling: twisted shielded pair, 18 AWG recommended—500 feet max. (152 meters)
- Dry Contact

Override inputs

- Dry Contact
- Normally Open

Outputs

Logic Zone Outputs

- 24 Volts AC Triac
- 1A @ 50C, 0.5A @ 60C, limited by the Class 2 supply rating

FTT-10A Network

- Speed: 78KBPS
- Cabling: Maximum node-to-node distance: 1312 feet (400 meters)
- Maximum total distance: 1640 feet (500 meters)

Cable Type	Pairs	Details	Taco Catalog No.
Level 4 22AWG (0.65mm)	1	Unshielded, Plenum, U.L. Type CMP	WIR-022

For detailed specifications, refer to the *FTT-10A Free-Topology Transceiver User's Guide* published by Echelon Corporation (www.echelon.com/support/documentation/manuals/transceivers).

Power Requirements

- 24VAC (20VAC to 28VAC), requires an external Class 2 supply

Power Consumption

- 7.2W with no external loads, maximum limited by the Class 2 supply rating

Mechanical

Housing

- Dimensions: 5.55" (141mm) high, 6.54" (166 mm) wide, 1.75" deep (44 mm)
- ABS

Weight

- Controller Weight: 0.70 pounds (0.32 kilograms)
- Shipping Weight: 1.0 pounds (0.46 kilograms)

Electronics

- Processor: 3150 Neuron 10 MHz
- Flash: 48 Kilobytes
- SRAM: 8 Kilobytes
- Termination: 0.197" (5.0 mm) Pluggable Terminal Blocks, 14-22 AWG

Environmental

- Temperature: 32 °F to 140 °F (0 °C to 60 °C)
- Humidity: 0 to 90%, non-condensing

Agency Listings

- UL Listed for US and Canada, Energy Management Equipment PAZX and PAZX7.

Agency Compliances

- FCC Part 15 Class A

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