



andover LCX 800 Local Control Unit User Guide

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LCX 800 Local Control Unit

Andover Controls

Infinity

LCX 800, LCX 800i Local Control Unit

The Infinity LCX 800 is a stand-alone, programmable, microprocessor-based controller that is used for Direct

Digital Control and monitoring of packaged HVAC units, heat pumps, and fan coil units.

The Infinet's true peer-to-peer communications protocol provides the Infinity LCX 800 with the ability to instantly communicate with an Infinity network controller such as the CX 9200, as well as the entire network of Andover Infinet field controllers. Up to 254 LCX 800s can be networked with the Infinity CX family of controllers.

The LCX 800 provides eight universal inputs and eight Form C relay outputs in a small open-class enclosure. The LCX 800i is a scaled-down version of the LCX 800 — it has eight universal inputs with no relay outputs.

COMMUNICATIONS

Communication to the Infinity LCX 800 is handled via the Infinet bus, a twisted pair, half duplex RS-485 interface. Communication is accomplished with a token passing protocol which provides full transparent data transfer between all Infinity controllers on the network.

INPUTS

Both the Infinity LCX 800 and LCX 800i are capable of sensing eight inputs. Each input can accept 2 digital (on/off), counter (up to 4 Hz), voltage (0-5VDC), temperature signal, or a supervised input for alarm monitoring.

OUTPUTS

The Infinity LCX 800 has eight Form C relay outputs rated at 5 amp 24VAC/DC, which provide on/off or pulse width modulation switching for control of fans, heating and cooling equipment, and economizers.

FEATURES

- Stand-alone DDC for System Reliability
- Peer-to-Peer Communications Provide Transparent Data Transfer
- Plain English™ Language Simplifies Programming
- Universal Inputs for Flexible Control Configurations
- Form C Outputs Provide On/Off or Pulse Width Modulation Switching
- Battery Backup For Ten Years Accumulated Power Failure of RAM Memory
- Detachable Input/Output Connectors for Easy Installation

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PROGRAMMING

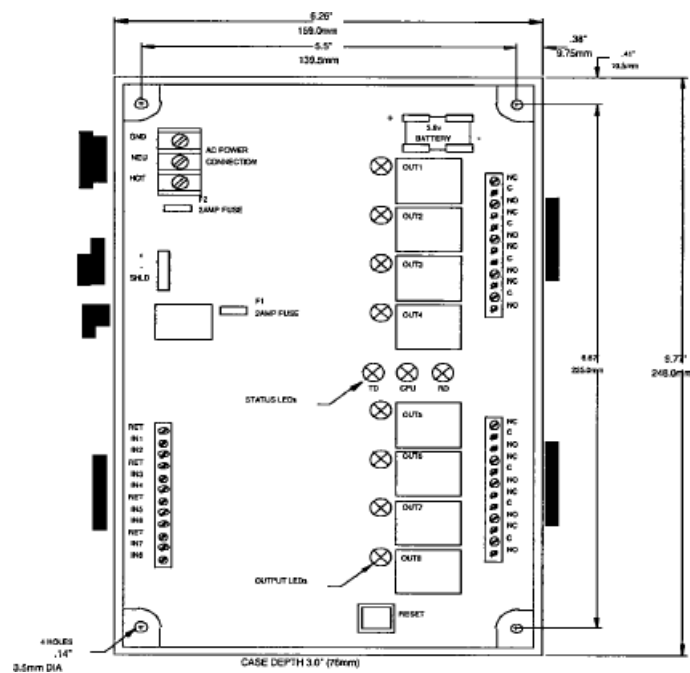
Every LCX800 31 B00] can be configured to meet the exact distributed control requirements of your application using And over Controls powerful plain English programming language. Programs can be activated within individual LCX 8005

or any network controller. Programs are entered into an LCX 800 using an SX B000 workstation, the LSX 280 Lap-To

Service Tool, or network controller, Th program is then stored in, and executed. the CX 800.

SOFTWARECAPABLITES

The dynamic memory of the LX 800 can be allocated for any combination of in English control programs, scheduling, alarming and datalogging. Our object rented language with intuitive Keywords provides easy operation and programming. In additional, Plain English pre defined and customized functions and powerful math capabilites reduce programming time or repetitive applications



SPECIFICATION

ELECTRICAL

Power: 24 VAC, 50/60 Hz

Power Consumption: 20VA

Overload Protection: Fused with 2 amp pico fuse. MOV protected.

Software Real-Time Clock: Synchronized through Infinet by CX OR CAAX Network Controlle.

MECHANICAL

Operating Environment: 10 to 140°F (23 to 57°C), 10 to 85% RH (on condensing)

Size: 9 3/4" H x 1 1/4" W x 3 00" D (247.5 x 31.8 x 76.2 mm)

Weight: 300g (10.6 oz)

Enclosure Type: UL Type 1, P10

BATTERY

Battery Backup: Replaceable, non-rechargeable, lithium battery. Provides 10 years typical accumulated power failure backup of RAM memory.

COMMUNICATIONS

Communications Interface: Through field bus to any CX or CVX Network Controllers or Loop Top Serve Tool

Communications Speed: 3001019.2k baud

Bus Length: 4.000%. (1.220m) standard or nine, infinite amplification module allows.

extension to longer distances and is required after every group of 32 units on the

network Bus Me InfiNet. twisted shielded pair, approved, low capacitance cable

Comm Error Checking: International Standard CRC 16

Inputs: 8 Universal inputs: digital on/off), counter upto 4 Hz at 50% duty cycle].

temperature (30102404) 341010, voltage 0-5 115) sensor

Input Voltage Range: 0-5115VDC 10kV 511V 24VAC or 24 VDC indefinitely on any single channel, + 1500 VDC transients

Input Resolution: 10mV

Input Accuracy: "1mV 14 bits range of 1010 +104) 0.56°C over range 23.310 865)

Outputs: singlet (5707) From Cres LCA cry

output Ratings: 58.200 2 50 reset

Output Resolution: 0.1 sec. for pulse width mod }

CONNECTIONS

Power: Three position barrier strip

Output: Removable two pieces terminal strip

Inputs: Removable two pieces terminal strip

Input: Removable two pieces terminal strip

GENERAL

Memory Size: 28K EPROM, 2K RAM, 128 Bytes EEPROM

AGENCY LISTINGS. ULICUL 916, 1076, FCC, CE

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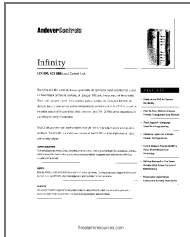
US. Patent #4591961
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Consult Andover Product Installation Gus for
exact instalation instructions and specifications.
#D5-800/6001-3.95

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Documents / Resources

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References

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