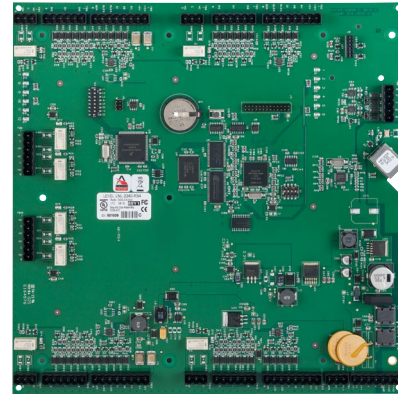


LNL-2240-RS4

ACU Series Intelligent Four Reader Controller



Overview

The Lenel® LNL-2240-RS4 ACU Series Intelligent Four Reader Controller is designed to facilitate the migration of Facility Commander™ Wnx, Diamond II and Sapphire Pro systems to Lenel's OnGuard® security management system. The LNL-2240-RS4 provides a one-for-one, plug-compatible, OnGuard-ready replacement for ACURS2, ACURS4, ACURT2 and ACURT4 controllers.

The LNL-2240-RS4 comprises two sections: an intelligent system controller and a hardware interface, which includes readers, door hardware, etc. Each LNL-2240-RS4 controller controls up to 4 readers, supports up to 100,000 cardholders and communicates over LAN via the on-board 10Base-T/100Base-TX Ethernet port.

The LNL-2240-RS4 field hardware interface consists of 4 reader ports, 8 relays and 12 inputs. The reader interface supports D1/D0 or Clock/Data signaling, and 12 general-purpose inputs monitor unsupervised or supervised circuits. Open collector outputs are provided to control each reader's red and green LED lights and the buzzer. Additionally, a 4-wire, RS-485 port is provided for communication to downstream I/O devices.

Features & Functionality

- Ability to replace ACURS2 and ACURS4 controllers that are OnGuard compatible
- Support for a wide range of readers, devices and card formats
- Large storage capacity—up to 100,000 cardholders in each panel
- Auxiliary supervised inputs and programmable auxiliary relays
- Onboard 10Base-T/100Base-TX Ethernet port for network communication
- Firmware stored in FLASH memory for easy updates from the server via LAN/WAN
- AES128 or TLS1.1 (with AES256 support) communication to OnGuard

LNL-2240-RS4

Specifications

Power Supply	
Primary Power	24 VAC, \pm 15%, 1.67 A maximum
Battery Charging Output	24 VDC, 700 mA maximum
UPS Battery (Optional)	24 V, 7 Ah rechargeable sealed lead-acid
Relay Outputs	8 outputs, Form-C, 2 A @ 30 dc, resistive
Inputs	12 unsupervised/supervised, standard EOL: 1K/1K ohm, 1%, ¼ watt
Reader Interface	
Reader Power	12 VDC regulated, 1 A maximum, combined for 4 reader ports 5 VDC regulated, 800 mA maximum, combined for 4 reader ports
Red, Green LED and Buzzer Outputs	Open Collector transistor, 12 VPC @ 10 mA maximum (sinking)
Reader Data Inputs	TTL compatible inputs; D1/D0 or Clock/Data
Communication Ports	
Host Communication: Ethernet:	10Base-T/100Base-TX
Downstream Communication	2- or 4-wire RS-485; 9600, 19200, 38400, or 115200 bps, asynchronous
Cable Requirements	
Reader Power	18 AWG, 500 ft (152m) maximum
Ethernet	Cat 5 minimum
Alarm Inputs	1 twisted pair, 30 ohms maximum, typically 22 AWG @ 1000 ft (304.8m)
Outputs	As required for the load
Reader Data	20 AWG, 500 feet (152m) maximum. Use shielded cable
RS-485 Communication	24 AWG, 120 ohm impedance, twisted pair with drain and shield
Environmental	
Operating Temperature	32°F to 149°F (0°C to +65°C)
Storage Temperature	-67°F to 185°F (-55°C to +85°C)
Humidity	5 to 95% Relative Humidity, Non-Condensing (RHNC)
Mechanical	
Dimensions	11.0" W x 11.0" L x 0.75" H (279.4mm x 279.4mm x 19.05mm)
Weight	15.7 oz. (450g) nominal, without terminal blocks
Certifications	
UL294, CE marking, RoHS compliant	

The LNL-2240-RS4 is for use in low voltage, Class 2 circuits only.

Ordering Information

Part No.	Description
LNL-2240-RS4	ACU Series Intelligent Four Reader Controller



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Specifications subject to change without notice.

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