



LNL-1000

Lenel Intelligent System Controller

Overview

The LNL-1000 Intelligent System Controller (ISC) by Lenel serves as the access control engine for a Lenel OnGuard system. The ISC provides power, performance, and flexibility for the most demanding applications. Multiple combinations of Input Control Modules, Output Control Modules, and Card Reader Interface Modules can be attached.

The ISC can communicate upstream at 38.4 Kbps via RS-232/RS-485 multidropped configurations, modem dial-up communication, or Ethernet TCP/IP networks. The ISC can store up to 175,000 cardholders online. Each ISC can have four downstream 2-wire RS-485 channels or two 4-wire RS-485 channels. In either configuration, up to 64 readers or 32 devices may be connected to a single Intelligent System Controller. Each device (LNL-1100, LNL-1200, LNL-1300, or LNL-1320) uses one device address.

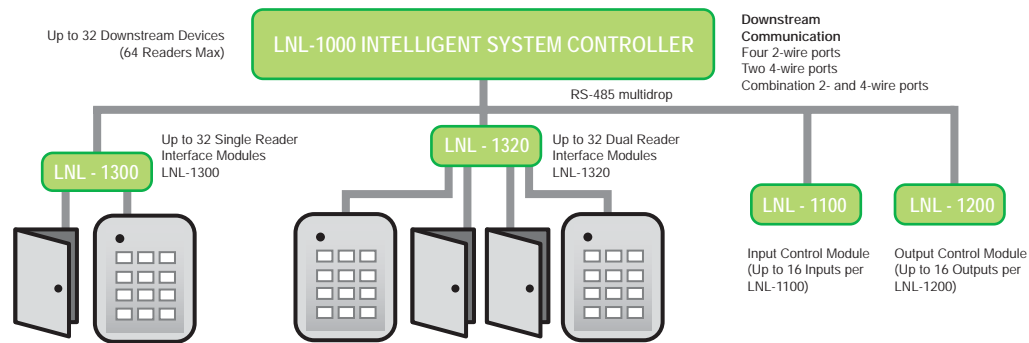
Features and Functionality

- Host communications - 38.4 Kbps direct wire (RS-232/485 multidropped), Ethernet TCP/IP, or dial-up
- 12 VAC or 12 VDC input power
- Supports up to 16 different formats (8 card formats and 8 asset formats)
- Enhanced anti-passback capabilities
- Flash memory for real-time program updates
- Lithium battery back-up
- Up to 32,000 access levels
- 255 holidays with grouping
- 255 timezones, each with 6 time intervals
- Elevator control, support for 64 floors
- 1 MB onboard memory, expandable to 4 MB (up to 175,000 cardholders)
- Up to 32 downstream devices and 64 readers
- Alarm masking
- Individual extended held open and strike times (ADA required)
- Up to 9-digit PIN codes
- Status LEDs for heartbeat, upstream and downstream communication
- Two dedicated inputs for tamper and power failure status
- Biometric credential-based device support
- NIST certified Advanced Encryption Standard (AES) 128-bit communication algorithm
- UL 294 and 1076 listed, CE marked



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Reader Options

LNL-1000	Standard onboard memory is 1 MB
Memory Options	
LNL-1003MK	3 MB memory expansion kit (Includes 3 MB memory and expansion board)
Host Communications	
LNL-ETHLAN	Micro serial server, flash ROM, DB25 serial port RJ-45 (10/100Base-T) Ethernet interface, diagnostic LEDs, external power 120 VAC with cables
Dial-Up Modem	
LNL-56KEXT	56 K external modem with cables
LNL-DC336K	12 VDC powered/33.6 K external modem for Intelligent System Controller

Specifications

Primary Power (DC or AC)	* The ISC is for use in low voltage, power-limited, class 2 circuits only.
DC input:	12 VDC \pm 15%. 350 mA
AC input:	12 VAC \pm 15%. 600 mA RMS
Memory and Clock Backup	3 V lithium, type BR2325
Communication Ports	
Port 1:	RS-232 or RS-485 (2-wire or 4-wire) 9600 to 38.4 Kbps async
Ports 2-5:	RS-485 (2-wire or 4-wire) 9600 to 38.4 Kbps async
Inputs	
Cabinet Tamper Monitor:	Unsupervised, dedicated
Power Fault Monitor:	Unsupervised, dedicated
Wire Requirements	
Power:	1 twisted pair, 18 AWG
RS-485:	24 AWG twisted pair(s) with shield, 4000 ft. (1219 m) maximum
RS-232:	24 AWG, 25 ft. (7.6 m) maximum
Inputs:	Twisted pair, 30 ohms maximum
Environmental	
Temperature:	Operating: 0° to +70° C (32° to 158° F) Storage: -55° to +85° C (-67° to 185° F)
Humidity:	0 to 95% RHNC
Mechanical	
Dimensions:	6 x 8 x 1 in. (152 x 203 x 25 mm)
Weight:	10 oz. (290 g) nominal
Approvals	UL 294 and UL 1076 listed, CE marked NIST certified Advanced Encryption Standard (AES) 128-bit communication algorithm