



Access Control

NGP-2220

The NGP-2220 Series of Intelligent System Controllers (ISCs) by Lenel is designed for integrated intrusion and access control applications. As the engine for Lenel's hybrid environment, these controllers provide the power and capacity needed for larger intrusion and access control environments to be central monitored. Designed from the ground up to be a Dual-Path Ethernet based panels, these controllers can also support transmitting events to Central Station receivers for intrusion reporting via HSC/IP or using the WWM. Utilizing native Dual-Path Ethernet communications and an advanced linux-based processor, the NGP-2220 Series Panels can communicate upstream to the host computer with failover protected throughput up to 8 times greater than the fastest serial connections. The NGP-2220 Series can support up to 250,000 cardholders, 512 Standard or Intrusion Type Input Points, 256 Outputs, and 66 Doors (Entry/Exit Readers per Door). Four downstream SNAPP Communication ports can be used to connect multiple combinations of LCD Keypads, Input Control Modules, Output Control Modules, Card Reader Interface Modules, and Intelligent Power Supplies (up to 96 devices) giving this panel set a capacity to handle Enterprise level installations.

Based on a common hardware platform (shared with the NGP-2220 Security Series), the panels are license upgradable to provide multiple levels of feature-set. The NGP-2220 Series can be purchased with an Onboard Dual-Door Interface or in an Access Control Only configuration. Panels are supplied with an enclosure and appropriate power transformer based on region. See the chart below for available features and capacities.

Features & Functionality - Intrusion

- 16 Pre-Defined Intrusion Point Types (Entry/Exit, Route, Perimeter, Hold-Up, etc.)
- Priority Area Arming/Disarming
- Common Area Arming/Disarming
- Schedule-based Arming
- Two Stage Auto Arming
- False Alarm Prevention Processing
- Pre-processing /Transmission Delay
- Bypass/Isolate/Restore Support
- Invalid User Code Lockout
- Fail to Close Alarm
- 'Work Late' Schedule extensions by profile
- 'Walk Test' – Installation Mode

Features & Functionality - Access Control

- Local Input / Output Support
- Extended (ADA) Strike and Held Open Timings
- Basic and Anti-Passback Based Area Counting
- Maximum and Minimum (Two-Man) Occupancy Rules
- Pending First User (First Card Unlock) Support
- Local Anti-Passback (Hard, Soft, and Timed Area)

Reader Interface Functionality

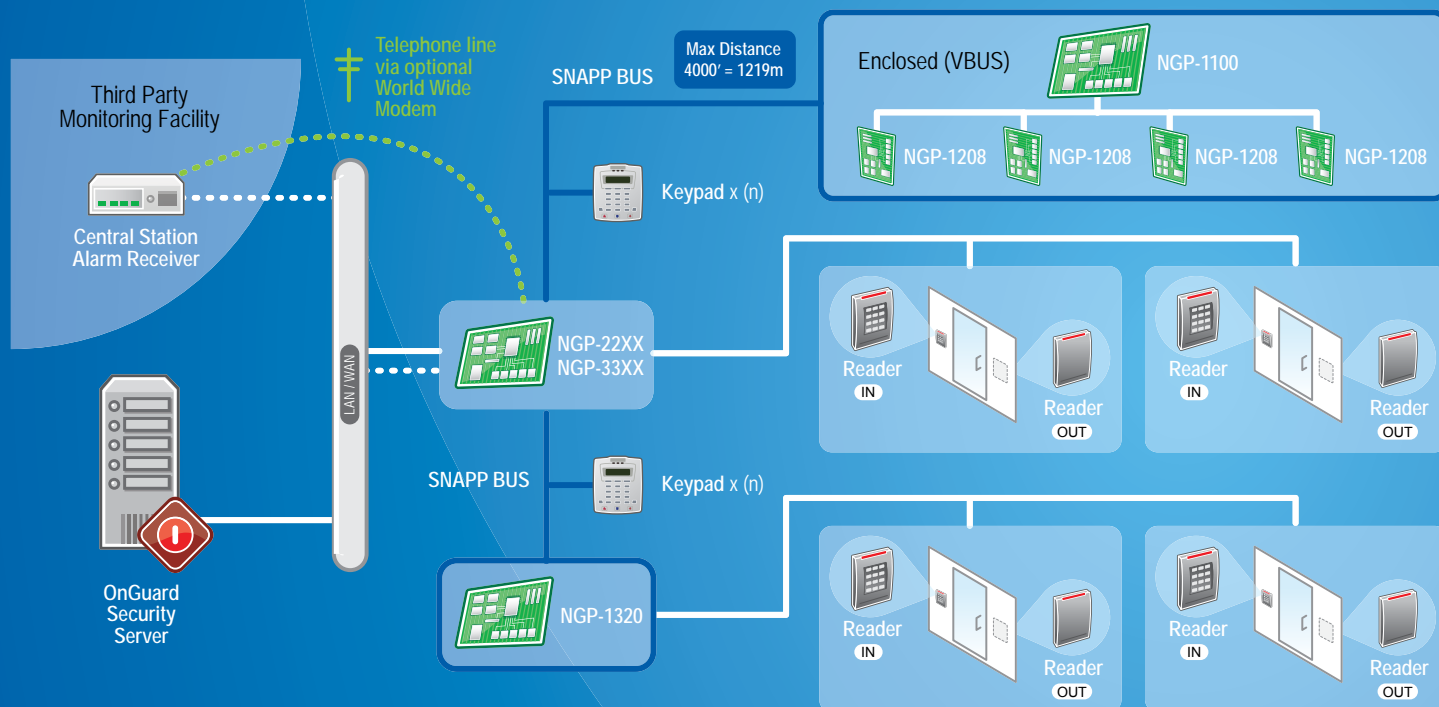
- Supports Wiegand Data1/Data0 and Magnetic Clock/Data readers and keypads (4/8 bit)
- 2 Form-C relay outputs, 5 A @ 24 VDC / 2 Form-A relay outputs 1A @ 24VDC
- Door contact, REX/RTE push-button, and Reader tamper, (open/closed) for each door
- Strike relay and auxiliary input/output for each door
- Bicolor reader status LED support plus beeper control, or 2-wire LED support

Features & Capacities - Panel

- Supports up to 250,000 Cardholders (Badges)
- Support for 1000 Permission Profiles (Authorities)
- Support for 130 Areas (Intrusion and Anti-passback)
- 512 Input Points / 256 Output Points
- 50,000 Event Buffer (battery backed non-volatile memory)
- Support for 66 Doors (In/Out Readers for Each Door)
- Support for up to 32,000 Access Levels (Up to 128 per badge)
- 255 Holidays with grouping, 250 Timezones (6 Intervals each)
- Card Format Support (Magnetic, Weigand, Smart Card) up to 245 bits
- Line (Circuit) Supervision (EOL) 4-State
- On-Board Network (10/100) Communications to Host
- Dual Path Reporting Capable to Monitoring and Central Station
- AES 128 Bit Encryption – Host to Panel
- Local and Remote Diagnostics
- Onboard Power Support
- Flash Updatable Firmware
- On-Board Flash and Battery-backed RAM
- Advanced Power Management

Features - OnGuard Software

- Global Input / Output Support
- Multi-Tenant Functions (Segmentation)
- Pin Code Options
- Event/Action Scheduling
- Video Integration with Access Control and Intrusion
- Video Linked to Events
- E-mail Alerts



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Controller Options

NGP-2220	Board Only
NGP-2220i	Board, Intrusion
NGP-2220iUL	Board, Intrusion, Enclosure, 110VAC UL Power Supply
NGP-2220iCE	Board, Intrusion, Enclosure, 220VAC CE Power Supply

NOTE: NGP-3300 Series Panels can be upgraded via license.

Specifications

Primary Power (DC or AC)	* The NGP-2220 is for use in low voltage, power-limited, class 2 circuits only.
Main Power Input :	18VAC or 24VDC ± 10%
Secondary Power Input:	12VDC ± 10% (will NOT charge backup battery)
Event Memory and Clock Backup	3 V , CR2330
Communication Ports	
Ethernet Communication Port	10/100Base-T Ethernet high-speed port
Inputs	4-State each programmable as normally open or normally closed, supervised or unsupervised circuits
Outputs	Wiegand Data1/Data0, Magnetic Clock/Data, F/2F single-wire protocol, Bioscrypt RS-485,
Relay outputs:	Two 1-Form-C relays for door strikes, 5A @ 24 VDC, resistive load Three 1-Form-A relays for auxiliary and strobe outputs, 1A @ 24 VDC, resistive load One 1-Form-C relay is for siren output, 1A @ 24 VDC, resistive load
Reader Power	
DC output:	12VDC
Reader Port Compatibility	Wiegand Data1/Data0, Magnetic Clock/Data
Environmental	
Temperature:	Operating: -10° to +55° C (14° to 131° F) / Storage: -40° to 85° C (-40° to 185° F)
Humidity:	10 to 93% RHNC
Mechanical	
Dimensions:	H 160mm x W 250mm x D 42mm (H 6.30 x W 9.84 x D 1.65 inches)
Weight:	Weight of I/O board and SOM board: 0.47 kg
Approvals:	CE-marked, ROHS compliant Advanced Encryption Standard (AES) 128-bit communication algorithm, NIST certification pending