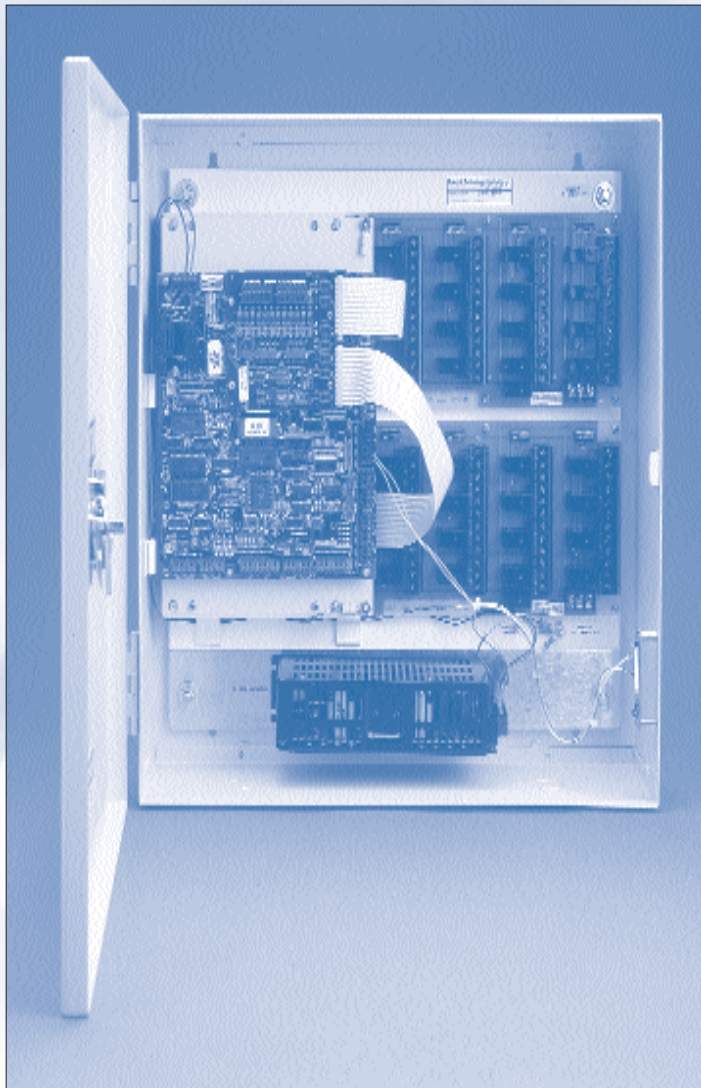


# multiNODE 2100 Elevator Node



**ACCESS CONTROL AND SECURITY MANAGEMENT SOLUTIONS**



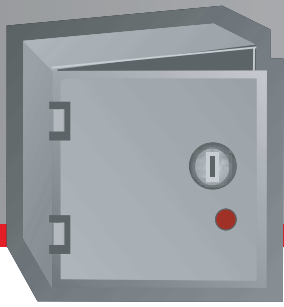
We offer advanced features for elevator control and security to complement its Security Management Solutions. The multiNODE 2100 Elevator Panel controls and records access of up to 64 floors. Each multiNODE 2100 elevator panel can control one, two or four elevators cabs.

The Elevator Panel is configured via client pc, allowing it to make all access decisions locally. A passenger presents a valid card at the reader and presses the button of the desired floor in the elevator cab. If the card is authorized for the selected floor, the elevator delivers the passenger to that floor. If the card is not authorized for the selected floor, the elevator remains at its current location. In both instances, the Elevator panel records the event in its transaction buffer and sends the information to the client computer. Should communication between the client computer and the panel be interrupted, the panel continues to operate, making all access decisions and recording all transactions. When communication is restored, the panel sends any stored transactions to the client computer.

Up to 32 multiNODE 2100 Elevator Panels may be connected in a single multiNODE Chain. The chain may be directly wired to a computer, TCP/IP LAN or via a modem for dial-up chain requirements.

**AMAG**

**Access Control & Security Management Solutions**



# multiNODE 2100 Elevator Node

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## General Specifications

### Operating Environment

32° F to 122° F (0°C to 50°C)  
15% to 90% humidity, non-condensing  
AC Operation - 18VAC  
Reader Supply - 12 volts DC nominal

### Mounting Requirements

The multiNODE 2100 Elevator panel may be mounted on top of the elevator, or in the elevator equipment room. The enclosure provides two round and two keyhole mounting holes and knockouts for electrical connections.

### Communications

Two communication ports are standard allowing multiNODE 2100 Elevator panels to be interconnected in a chain configuration, using a 20mA current loop. The first panel in a chain can use either the optional RS232 plug-in module to directly connect with a computer or dial-up modem or optional NIC plug-in module to connect via a TCP/IP network.

### Transmission Speed

(Host Communications)  
Switch-selectable (9600/19200/38400 baud)  
Input/Output Terminations  
Barrier strips with screw clamp wire connections.  
Input Connections (Optional)

A dry set of normally open contacts from each floor selection button is wired into the elevator panel in a matrix arrangement. If these inputs are provided, the panel only grants access to a validly selected floor. That floor number is included in the transaction report. If the inputs are not supplied, the panel enables access to all valid floors for a card holder. Access will be granted to any or all of the enabled floors. The corresponding transaction reports access is granted, but does not indicate the floor number.

### Storage Capacities

50,000 cards  
47,000 off line stored events

### Configurations

1 Cab @ 64 floors each  
2 Cab @ 32 floors each  
4 Cab @ 16 floors each

### Output Connections

Floor select relays provide the interface to the elevator control mechanism: one relay for each floor to be secured. Each floor may be secured (relay energized) or set to free access (relay de-energized), on an individual basis by commands from the client or by a timed command stored in the multiNODE 2100 Elevator panel. Under total loss of power condition all relays revert to free access (relays de-energized) to provide fail safe operation. A fireman's free access switch is also supported, which when operated removes power from all relays.

Floor select relays are single Form C contact sets rated as  
- AC load @250 VAC-8 amps resistive, 6 amps inductive  
- DC load @30 VDC-8 amps resistive, 4 amps inductive  
- Maximum switching - 2000 VA/240 W resistive, 1500 VA/120W, inductive

### Timed Commands

Automatic timed commands are associated with a time code which defines the days of the week and the time intervals for each day during which a floor is to be either secured or set to free access.

### Reader Technologies and Card Formats

The multiNODE 2100 Elevator panel supports a range of reading technologies including magnetic stripe and proximity by direct connection, and while a number of default card formats are pre-programmed as standard into the panel, there is the capability for custom formats to be defined.

### Communicating Distances

multiNODE 2100 Elevator Node to PC/Modem (RS232) = 50 ft/15m  
multiNODE 2100 Elevator Node to other multiNODE-2100 panels (current loop) = 3000 ft/1000m  
multiNODE 2100 Elevator Node to current loop reader = 3000ft/1000m