



Symmetry™ MultiNODE 2150 Elevator Controller Datasheet

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 Symmetry multiNODE 2150 elevator controller 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

Symmetry Elevator controllers can be interconnected in a chain configuration, using a 20mA current loop. The first controller 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)

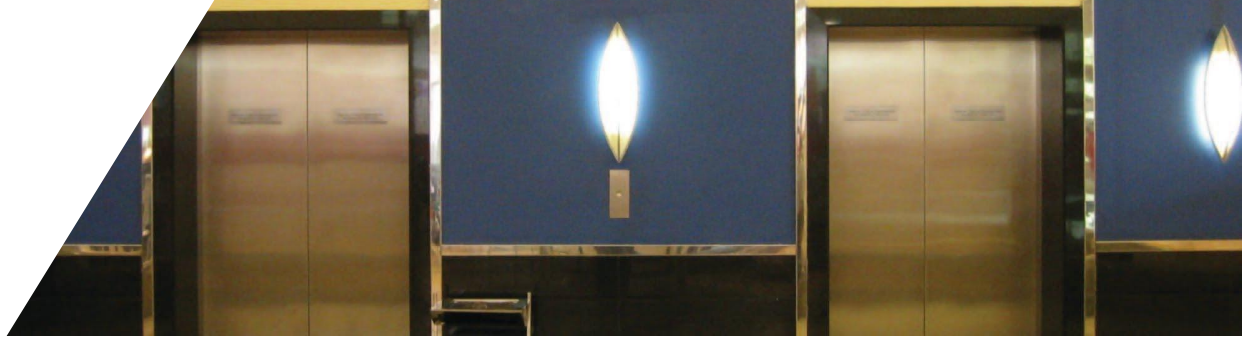
Input/Output Terminations

- Barrier strips with screw clamp wire connections

We offer advanced features for elevator control and security to complement our security management solutions. The Symmetry multiNODE 2150 elevator controller controls and records access for up to 64 floors. Each Symmetry multiNODE 2150 elevator controller can control one, two or four elevator cabs.

The Symmetry elevator controller 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 controller records the event in its transaction buffer and sends the information to the client computer. Should communication between the client computer and the controller be interrupted, the controller continues to operate, making all access decisions and recording all transactions. When communication is restored, the controller sends any stored transactions to the client computer.

Up to 32 Symmetry multiNODE 2150 elevator controllers may be connected in a single Symmetry multiNODE chain. The chain may be directly wired to a computer, TCP/IP LAN or via a modem for dial-up chain requirements.



Input Connections (optional)

A dry set of normally open contacts from each floor selection button is wired into the elevator controller in a matrix arrangement. If these inputs are provided, the controller only grants access to a validly selected floor. That floor number is included in the transaction report. If the inputs are not supplied, the controller 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

Reader Technologies and Card Formats

The Symmetry multiNODE 2150 elevator controller supports a range of reading technologies including magnetic stripe, proximity and smartcard by direct connection, and while a number of default card formats are pre-programmed as standard into the controller, there is the capability for custom formats to be defined.

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 Symmetry multiNODE 2150 elevator controller. 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 @250VAC-8 amps resistive, 6 amps inductive
- DC load @30VDC-8 amps resistive, 4 amps inductive
- Maximum switching – 2,000 VA/240 W resistive, 1,500 VA/120 W, inductive

Scheduled 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.

Communication Distances

- Symmetry multiNODE 2150 elevator node to PC/Modem (RS232) = 50ft/15m
- Symmetry multiNODE 2150 elevator node to other Symmetry multiNODE-2150 controllers (current loop) = 3,000ft/1,000m
- Symmetry multiNODE 2150 elevator node to current loop reader = 3,000ft/1,000m

PURCHASING INFORMATION

- M2150-ELEV
- M2150-ELEV-EXT