



Symmetry™ Edge Network Controller

EN-1DBC PoE One Door

www.amag.com

Product Overview

The Symmetry Edge Network Controller is a key feature of an access control system. It provides distributed intelligence, resilience in the event of network failure, and fast response to access requests.

The Edge Network Controller is a Power-over-Ethernet (PoE) One Door Controller that provides distributed intelligence and fast response to access requests.

The Symmetry Edge Network Controller supports connections to a client PC via the Local or Wide Area Network. Each Symmetry Edge Network Controller communicates with PCs running the feature rich Symmetry Business, Professional or Enterprise security management software, v6.0.2 SP7 or later. Direct network discovery and programming using the Symmetry software provides simplified installation. The security management software is used to set up the rules of access control, monitor alarms, produce reports and administer one or more facilities.

Reader Technologies & Card Formats

The Symmetry Edge Network Controller controller supports a full range of reading technologies including Magnetic Stripe, Smart card, Proximity, Biometrics and Wiegand. A number of default card formats are programmed as standard and there is a capability for custom formats to be defined. This is particularly important when integrating existing cards with a new system.

Symmetry Edge Network Controller Configurations

The Symmetry Edge Network Controller controller is supplied with enclosure. The enclosure has a removable lid and tamper switch as standard.

The Symmetry Edge Network Controller can be powered using PoE or locally via a 12VDC supply. When powered using PoE, 700ma is available for reader and lock power.



Technical Details

The Symmetry Edge Network Controller contains the system databases, performs the transaction processing and controls system communications.

The Symmetry Edge Network Controller is supplied as standard with memory for up to 50,000 cardholders and 10,500 offline transactions.

The Symmetry Edge Network Controller incorporates Flash Memory supporting downloadable firmware and allowing firmware enhancements via a PC, simplifying upgrades and minimizing installation time.

Key Features

- Power over Ethernet (PoE) support for controller, reader and door release provides lower installation cost
- Switch selectable support for secure Symmetry 20mA or Wiegand reader communications
- Surface or wall switch mounted
- Accelerated network card download
- 50,000 Cardholders



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Specifications

Includes Enclosure

- Width: 6.8in (173mm)
- Height: 4.7in (120mm)
- Depth: 1.4in (35mm)

Operating Environment

- +32°F to +122°F (0°C to +50°C)
- 15% to 90% humidity, non-condensing

Communication Distances

- Door Controller to Current Loop Reader = 3000ft (1000m)
- Door Controller board to Wiegand Reader = 325ft (100m)

Storage Capacities

- 50,000 cards and 10,500 offline transactions.

Controller Inputs/Outputs

- Input rating using PoE: 15.4W max. at 40VDC
- Input rating using External supply: 850ma max. at 12VDC

Reader and Door Release Outputs

- 700mA max. combined current at 12VDC

Reader ports

- Switch selectable 20mA current loop or Wiegand
- Door monitor inputs 2/3/4 - state supervision
- Exit Request inputs 2/3/4 - state supervision
- Door Release relay outputs rated at 28VDC, 3A max
- Bypass / shunt relay outputs rated at 28VDC, 3A max

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