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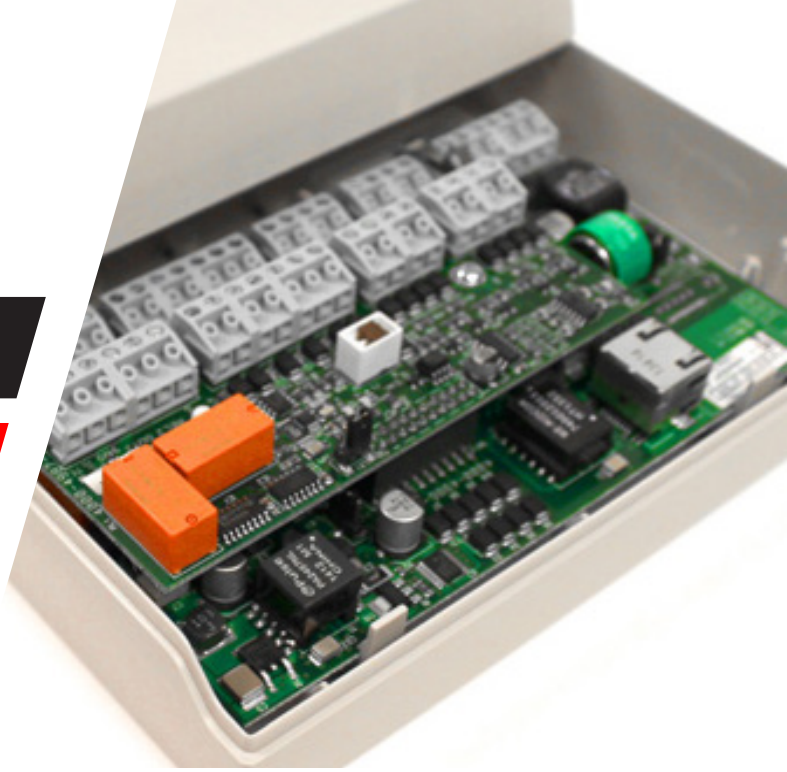
DATASHEET

Symmetry™ EN-2DBC

Edge Network Controller



Key Features

- Power over Ethernet (PoE+) capable for controller, card readers and door release provides lower installation cost
- SNMP (Simple Network Management Protocol) support for enhanced monitoring of status
- Switch selectable support for secure Symmetry MCLP or Wiegand reader communications
- Surface or wall switch mounted
- Accelerated network card download
- Support for 128- or 256-bit AES encryption of network communications
- Supports up to 90,000 cardholders

Product Overview

The Symmetry 2 door edge network door controller is a security appliance for access control system providing distributed intelligence, resilience and fast response to access requests.

The edge network controller supports two doors and provides four general purpose inputs and two general purpose outputs. It can be powered by either a local power supply or Power over Ethernet (PoE+).

The Symmetry edge network controller is fast and simple to install, supporting connections to Symmetry. Each Symmetry edge network controller communicates with PCs running the feature rich Symmetry security management software. Direct network discovery and programming using 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 supports a full range of reador technologies including smart card, proximity, magnetic stripe and biometrics, and supports both Symmetry and Weigand card readers. Several 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.

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Specifications

✓ Requires Symmetry Professional or Enterprise

Dimensions (including enclosure)

- Length: 7.3 in (185 mm)
- Width: 5.8 in (147 mm)
- Depth: 2.0 in (50 mm)

Operating Environment

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

Communication Distances

- Door controller to secure Symmetry 20mA reader (MCLP) = 3,000 ft (1,000 m) when reader powered locally
- Door Controller board to Wiegand reader = 325 ft (75 m)

Reader Ports

- 2 x switch selectable MCLP 20mA current loop or Wiegand
- 2 x door monitor inputs 2/3/4 - state supervision
- 2 x exit request inputs 2/3/4 - state supervision
- 2 x door lock relay outputs

Inputs

- 4 x general purpose inputs 2/3/4/6 state supervision

Symmetry Edge Network Controller Configurations

The enclosure has a removable lid and tamper switch as standard. The Symmetry edge network controller can be powered using PoE, PoE+, or locally via a 12VDC supply.

When powered using PoE+, 1500mA total is available for reader and lock power.

Technical Details

The Symmetry edge network door controller contains the system databases, performs the transaction processing and controls system communications. It is supplied as standard with memory for up to 90,000 cardholders and 18,000 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.

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Outputs:

- 1 x general purpose relay outputs (Symmetry Reader license required for configuration)

Storage Capacities

- Up to 90,000 cards and 18,000 offline transactions

Ratings

Ratings

- Local input supply: 2.0A @ 12VDC
- Combined output current available for all devices when powered via controller:
  - Input PoE 802.3af: 750mA max @12VDC
  - Input PoE+ 802.3at: 1.5A max @12VDC
  - Local supply: 1.5A max @ 12VDC
- Relay outputs and door-release relay contact rating: 28VDC, 3A maximum
- Reader output: 12VDC 500mA max per reader

Compliance

- UL294B
- PoE 802.3af, PoE 802.3at, EN50133, 1999/5/EC

Purchasing Information

EN-2DBC

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