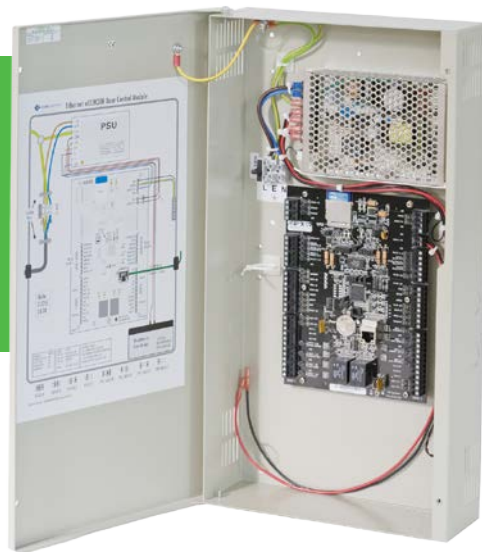


eDCM 300

Intelligent Two Door Controller

Features that make a difference:

- Support for two doors
- On-board 10/100 Mbps Ethernet
- Communicates directly with the central system
- Structured database allows storage of large amounts of cardholder records for off-line card validation
- Reader communications via standard Wiegand or Mag Stripe interfaces
- Eight supervised inputs (four available per door)
- Two relays (normally opened or closed) and open collector outputs
- Self resetting fuses – saves maintenance time
- A supervised input can be mapped to a physical output
- Onboard LED - provides visual status
- Dedicated tamper input



The eDCM 300 (Door Control Module) is a low cost, two-door controller designed to interface third-party read heads with the CEM range of access control systems.

The eDCM 300 has an on-board 10/100 Ethernet connection and communicates directly with the AC2000 central system. Using a powerful 32bit processor, the eDCM 300 gives full off-line validation and decision making capability at the point of entry, when host communication is not available.

The eDCM 300 supports most third-party access control read heads conforming to the physical Wiegand/Mag Stripe (data/data, clock/data) interfaces, covering a range of technologies from RF Proximity to Biometric devices.

The eDCM 300 supports two door configurations. It can either be configured for two read heads on two separate doors, with optional Exit push buttons, or can be configured to support two reader heads (an Entry/Exit configuration) for bi-directional control on a single door.

On-board Card Reading Technologies

The eDCM 300 supports a wide range of head technologies using the two available on-board Wiegand connections. Supported card technologies include Wiegand 26bit, CEM 37bit, Mifare, Corporate 1000 and many more.

Off-line Card Validation

The card database is initially downloaded to the reader's memory from the host computer with subsequent changes to card data automatically sent as updates. This ensures that the reader has up-to-date card information when operating in off-line mode. While operating in off-line mode, the controller can hold 200,000 cards and store 50,000 transactions.

Easy to Install

The eDCM 300 is designed to be extremely easy to install. The installer simply enters the units preconfigured IP address on the AC2000 workstation, provides it with power, connects to an Ethernet network and the reader self configures and receives up to 50,000 cardholder database in under 2 minutes.

Specifications

Physical

Size
Board Only 192 x 145 x 20mm (7.6" x 5.7" x 0.8")
Enclosure 460 x 250 x 90mm (18" x 10" x 3.5")

Weight
Board Only 0.1Kg
Enclosure 5.00kg

Housing Wall mount 1.2mm steel enclosure

Color Gray

Power

Board Only
Voltage 9 – 14Vdc
Current Consumption 170mA (excluding locks and heads)

Enclosure
Voltage Input 100-240 VAC 50/60Hz
Output 13.8V@ 3.5A
Current Consumption 200mA (excluding locks and heads)

Backup Battery Integral charging circuit provided with enclosure and space battery.

Battery Charge 0.23A (Battery not supplied)

Environmental

Temperature -10° to 55°C (14° to 133°F)

LED Indicators Power, Link to host, Comms Tx/Rx, Fault / Tamper, Lock and Relay Status

Functionality

- Inputs:
- Door Position*
 - Lock Status*
 - Exit Push Button*
 - Interlock
 - Tamper
 - Battery Low (reported internally)
 - Dedicated Power Fail Input

* = 4 state tamper protected inputs. These physical inputs can be used, if spare, as general purpose inputs for alarm monitors.

Outputs Two Relays rated at 30V@5A
Two 12V open collector outputs limited to 1.5A (Door Lock and External Sounder)

Reader capacity 2 Weigand/Mag Stripe interfaces (data/data, clock/data)

Configuration Operational parameters are downloaded from host computer

Database memory 2GB SD Card

Cardholders Storage up to 200,000 cardholders at the door

Transactions Up to 50,000 transactions in offline operation

RTC Battery Backup 3.0V rechargeable Lithium

Configuration Operational parameters are downloaded from host computer

Communication Interface

To Readers Weigand/Mag Stripe interface (data/data, clock/data)

Connection 2 part screw terminals

To System Host 10/100 Base-T TCP/IP using CAT5 Unshielded twisted pair cable

Connection RJ45

Regulatory

Agency Certifications FCC Part 15
CE
UL 294

Requirements

Compatible with the AC2000 access control family:

- AC2000
- AC2000 Airport
- AC2000 Lite
- RTC Ethernet Reader Controller

Ordering Information

| Product Code | Description |
|--------------|--|
| DCM/300/006 | eDCM 300 (Board Only) |
| DCM/300/101 | eDCM 300 (includes enclosure, board & power supply/ battery charger) |

Related Products



AC2000
AC2000 Airport
AC2000 Lite

Approvals



www.cemsys.com