CEM SYSTEMS

A Tyco International Company

eDCM 330

Intelligent two door PoE+ Controller

OVERVIEW

The eDCM 330 (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 330 also combines Power over Ethernet Plus (PoE+) connectivity, which powers all door furniture and two heavy duty maglocks via a single CAT 5e/6 network cable.

Featuring PoE+ connectivity, the eDCM 330 has the benefit of eliminating the need for an external local mains power supply at the door. This is particularly beneficial where local power is not readily available or where cabling must be kept to a minimum. Using just a single Cat 5e/6 cable to power the door(s), the eDCM 330 unit can offer significant cost savings.

Using a powerful 32bit processor, the eDCM 330 has a large internal database that can store up to 200,000 cardholder records. This gives full off-line card validation and decision making capability at the point of entry, when host communication is not available.

The eDCM 330 supports most third-party access control read heads conforming to the physical Wiegand (data/data) interfaces, covering a range of technologies from RF Proximity to Biometric devices.

The eDCM 330 supports two door configurations. It can either be configured for one read head on each separate door, 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.

eDCM 330

FEATURES

- Intelligent two door controller supporting 3rd party read heads
- Support for two doors
- On-board 10/100 Mbps PoE+ Ethernet connectivity to power the reader and doors via a single CAT5e/6 cable– no local mains power required
- Communicates directly with the central AC2000 access control system
- Database supports 200,000 cardholder records for off-line card validation
- Reader communications via standard Wiegand interfaces
- Eight supervised inputs (four available per door
- Four outputs (2 per door)
- Self resetting fuses – saves maintenance time
- Onboard LED provides visual status information
- Dedicated tamper input
- Suitable for use with AC2000 System family:
  AC2000 Lite
  AC2000 SE (Standard Edition)
  AC2000 AE (Airport Edition)

PRODUCT HIGHLIGHTS

Control and power up to two doors via Power over Ethernet Plus Technology

The eDCM 330 works in conjunction with a Midspan power injector between the network and the door and sufficiently powers door readers and two heavy duty maglocks via a single CAT 5e/6 network cable. This eradicates the need for an extra external power supply above the door.

Onboard card reading technologies

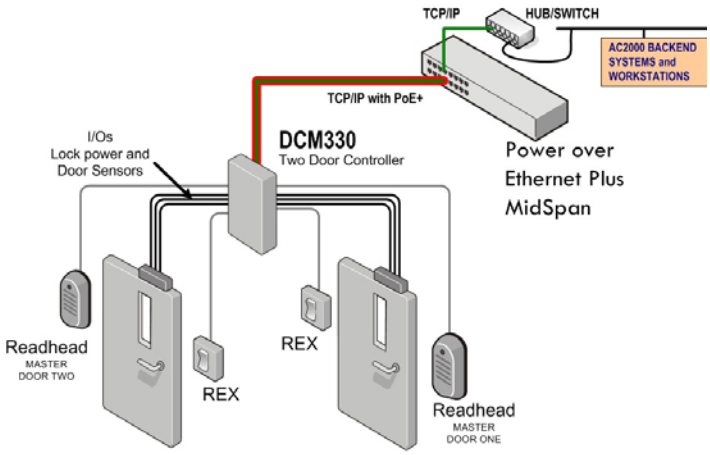
The eDCM 330 supports a wide range of head technologies using the two available on-board Wiegand connections. Supported card technologies include Wiegand 26bit, CEM 37bit, Mifare, Corporate 1000 and many more.

Offline card verification

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. Operating in off-line mode the reader can hold up to 200,000 cards and 8,000 transactions.

Host Communications

The eDCM 330 has an on-board 10/100 Mbps Ethernet allowing it to communicate directly with the AC2000 host central system



The PoE+ injector or mid span device supplies all the power for the devices and locks required by two doors.

TECHNICAL SPECIFICATIONS

PHYSICAL

Size:	460x250x90mm (18" x 10" x 3.5")
Weight:	3.75kg
Housing:	steel enclosure / Colour Beige

POWER

- Power requirement:	Voltage PoE+ dependant 802.3at compliant 45 to 56 Volts dc
- PoE Output voltage:	12Vdc @ 2.0A
- Current Consumption	200mA (excluding locks and heads)
- Backup Battery:	Integral charging circuit provided with enclosure and space battery (Battery not supplied)

FUNCTIONALITY

	Configuration Operational parameters are downloaded from host computer
eDCM 330 Inputs	* Door Position * Lock Status * Exit Push Button * General Purpose Power Fail Tamper Battery Low (reported internally) Dedicated Power Fail Input * = 4 state tamper protected inputs
eDCM 330 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 interfaces (data/data)
Configuration	Operational parameters are downloaded from host computer
Database memory	1GB SD Card
Cardholders	Storage up to 200,000 cardholders at the door
Transactions	Up to 8,000 transactions in offline operation
PCB Battery	3.0V rechargeable Lithium; Used for PCB real-time clock only

PRODUCT CODES

DCM/330/101	eDCM 330 components mounted in enclosure.
CEQ/576/001	Phihong PoE MidSpan device – 1 Port (PoE36u-1AT)
CEQ/576/004	Phihong PoE MidSpan device – 4 Port (PoE125u-4AT)
CEQ/576/008	Phihong PoE MidSpan device - 8 Port (POE576U-8AT)
CEQ/576/016	Phihong PoE MidSpan device - 16 Port (POE576U-16AT)

Product specifications and availability is subject to change without notice. Certain product names mentioned herein may be trade names and/or registered trademarks of their companies.
Diagrams shown are illustrative purposes only. Refer to product manual for recommended cabling.