

DCM 150

Door Control Module



FEATURES

- Support for two doors
- Interfaces third party read heads to CEM intelligent controllers
- Reader communications via standard Wiegand or Mag Stripe interfaces
- Eight Supervised inputs (Four available per door)
- Two Relays (normally opened or normally closed)
- Self resetting fuses – saves maintenance time
- Onboard LED - provides visual status
- Dedicated Tamper input
- Flash upgradeable on site
- Suitable for use with webEntry™ and AC2000 SE systems

OVERVIEW

The DCM 150 (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.

Acting as a wiring concentrator for up to two doors it allows local door furniture and read heads to be wired to a single point near the door and remotely connected, via CAT5 or Belden 8723 cable, to a CEM intelligent controller such as webEntry™ or a S90x0 type controller on AC2000 SE. Up to sixteen units can be multi-dropped from a single RS485 Communications line up to a distance of 1,200 Metres from the host controller.

The DCM 150 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. Customised solutions also available using two high speed serial RS485/RS232 interfaces to support non-standard devices such as biometric, read/write smartcards and crypto modules.

The DCM 150 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 an Entry/Exit configuration for bi-directional control on a single door.

The DCM 150 is suitable for installations where customers want to connect existing read head technology to any of CEM's intelligent controller products like webEntry or the S9020/S9040 with AC2000 SE. Unlike the CEM range of card readers the DCM 150 does not provide local database support for off-line card validation.

PRODUCT HIGHLIGHTS

Ease of Installation

Visual confirmation of board, relay and comms transmit/receive status is provided via LEDs allowing easy installation and simplifying the diagnostic process. An onboard LED provides visual alerts to help when a number of DCM's are banked in close proximity to one another.

High quality connectors simplify the installation process and allow simple drop in replacement in the event of hardware failure.

Board configuration is achieved via a small number of jumpers and requires no specialist tools.

TECHNICAL SPECIFICATIONS

Operational I/O Interfaces

Inputs	Eight supervised inputs (4 per door) that are monitored/re-configurable by host system <ul style="list-style-type: none"> - Door Position - Lock Status - Exit Push Button - General Purpose Input (defined by host system)
Outputs	Two 12V current limited lock outputs Two Relays rated at 35V@2A LED - Provides visual status One RS485 host communications port Can support read heads with 3 LEDs and a Sounder
Reader Capacity	Supports two Wiegand/Mag Stripe interface readers (data/data, clock/data); configured as either two Entry readers or Entry/Exit readers for bi-directional control Customised options available with two high speed serial RS485/RS232 interfaces to support specialist read head technologies. Contact CEM Systems for details.

Communication Interfaces

To Host Controller	RS485 over Copper Wire
RS485 Transmission	1,200m (3,937 ft) without repeater under optimal conditions

Electrical

DC Voltage	12V (+/-20%) Current
Consumption	300mA (excluding locks and heads)

Mechanical

Dimensions (H x W x D)	
Board Only	18cm x 12cm x 2cm (7.1 x 4.7 x 0.8in)
Unit Enclosure	46cm x 25cm x 9cm (18 x 10 x 3.5in)
Security Features	Power Fail, Low Battery and dedicated case tamper inputs

Environmental

Operating Temp. Range	20° to +70°C (-4 to 158°F)
Humidity	0 - 95% RHNC

Product Codes

DCM/150/100	DCM 150 (Board Only)
DCM/150/101	DCM 150 (Includes Enclosure, board & Power Supply)

Options

The DCM 150 supports a range of manufacturers read heads including but not limited to Kantech, HID & Deister. Contact CEM Systems for full details.

Customised options available with two high speed serial RS485/RS232 interfaces to support specialist read head technologies. Contact CEM Systems for details.

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