

sDCM 300

Two Door Intelligent Serial Controller

OVERVIEW

The sDCM 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 sDCM 300 communicates with the AC2000 host system via RS485 communications to an S9032/64 serial controller or by TCP/IP using the Ethernet Communications Module (ECM). Using a powerful 32bit processor, the sDCM 300 gives full off-line validation and decision making at the point of entry, even when host communication is not available.

The sDCM 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, for example RF Proximity. Customised solutions are also available using two high speed serial RS485/RS232 interfaces to support non-standard devices such as, read/write smartcards and crypto modules.

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



FEATURES

- Support for two doors
- RS485 host connection
- 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 normally closed)
- Self resetting fuses – saves maintenance time
- Onboard LED - provides visual status
- Dedicated Tamper input
- Suitable for use with AC2000 SE (Standard Edition), AE (Airport Edition) and Lite (using an Ethernet Communication Module (ECM))

PRODUCT HIGHLIGHTS
Host Communications

The sDCM 300 utilises RS485 communications to connect to the AC2000 host controller, such as the CEM S9032/64. The ability to connect to an Ethernet host controller is provided by using the Ethernet Communications Module (ECM).

Onboard Card Reading Technologies

The sDCM 300 supports a wide range of head technologies using the two available onboard Wiegand connections. Supported card technologies including 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. Operating in off-line mode the reader can hold in excess of 200,000 cards.

Easy to Install

The sDCM 300 is designed to be extremely easy to install. After connection to the host controller, configuration can be quickly performed using the AC2000 workstation software, ensuring that the unit is up and running in the shortest of time.

TECHNICAL SPECIFICATIONS
PHYSICAL

Size	- Board Only	180 x 120 x 20mm (7.1" x 4.7" 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
Colour		Grey
Power	Board Only:	
	- Voltage	11 – 15Vdc
	- Current	
Consumption		170mA (excluding locks and heads)
Enclosure:		
	- Voltage	220-230 VAC 50/60Hz.
Backup Battery		Integral charging circuit provided with enclosure and space battery (Battery not supplied).
Environmental		
	- Temperature	-10° to 55°C (14° to 131°F)
LED Indicators		Power, Link to host, Comms Tx/Rx, Fault / Tamper, Lock and Relay Status

FUNCTIONALITY

Inputs	<ul style="list-style-type: none"> * Door Position * Lock Status * Exit Push Button * General Purpose Break Glass Sense Fire Alarm Sense Power Fail Tamper Battery Low (reported internally) Dedicated Power Fail Input * = 4 state tamper protected inputs
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Outputs	Two 12V or 24V open collector outputs limited to 1.5A (Door Lock and External Sounder) Two Relays rated at 35V@2A
Reader capacity	2 Weigand/Mag Stripe interfaces (data/data, clock/data)
Configuration	Operational parameters are downloaded from host computer
Database memory	1GB SD Card
Cardholders	Storage in excess of 200,000 cardholders at the door.
Transactions	Up to 8,000 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	RS485
Connection	Terminal

PRODUCT CODES

DCM/310/004	sDCM 300 (Board Only)
DCM/310/101	sDCM 300 (Includes enclosure, board & power supply/battery charger)

* NOTE: AC2000 SE/AE/Lite version 5.7 required.

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