CEM SYSTEMS
From Tyco Security Products

sDCM 350

Two-door Intelligent encrypted Serial Controller

Features that make a difference:

- Support for two doors
- Two encrypted RS485 reader communication connections
- RS485 host connection
- Eight Supervised inputs (Four inputs per door)
- Four outputs Two Relays (normally opened or normally closed) Two FET'S (Field Effect Transistor's) with 12V supply
- Self resetting fuses – saves maintenance time
- Onboard LED indicators- provides visual status
- Dedicated Tamper input
- Integrated backup battery monitoring and trickle charging
- Suitable for use with AC2000 SE (Standard Edition) and AC2000 Lite security management systems

The CEM sDCM 350 (Door Control Module) is a low cost, two-door serial controller that is designed to interface to CEM sPass DESFire smart card readers.

By utilising encrypted RS485 serial communications between the sDCM 350 controller and the sPass reader, the threat of Wiegand controller signal cloning is effectively eliminated. In addition, the CEM sPass reader utilises 3DES (Triple DES) encryption offering the highest measures of data security.

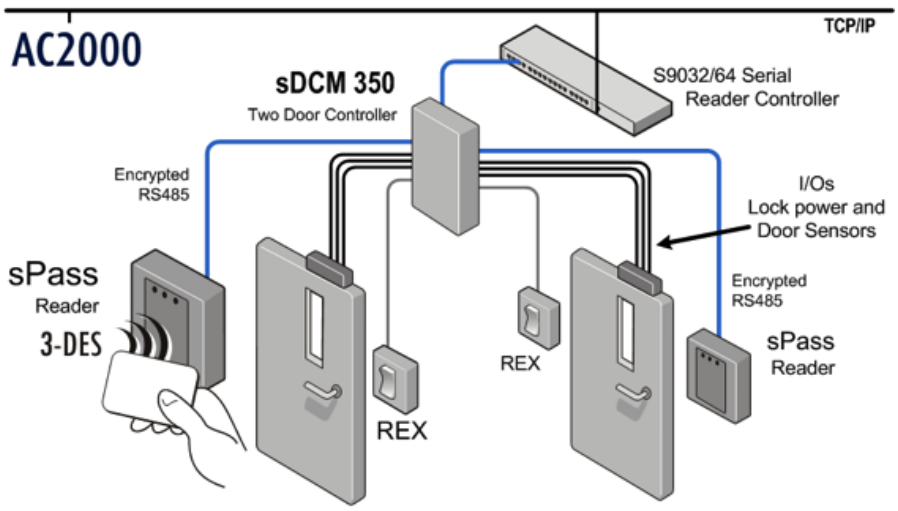
The sDCM 350 communicates with the AC2000 host system via RS485 communications to an S9032/64 serial controller or by TCP/IP using the Ethernet Communications Module (ECM). Using a powerful 32bit processor, the sDCM 350 gives full off-line verification and decision making at the point of entry, even when host communication is not available.

The sDCM 350 supports two door configurations. It can either be configured for two sPass readers on two separate doors, with optional Exit push buttons, or can be configured to support two sPass readers (an Entry/Exit configuration) for bi-directional control on a single door.

Together the sDCM 350 controller and sPass reader offer an ideal solution when a panel approach is required. It offers a highly secure, encrypted DESFire solution at a cost effective price.

The sDCM 350 is suitable for use on the AC2000 Lite & AC2000 SE (Standard Edition) security management systems.

sDCM350 – Two Door controller
Shown in Two Door (Master/Master) mode



ABOVE: sDCM 350 in two door (Master/Master) mode, shown with CEM sPass card readers. The sPass readers are connected using the encrypted RS485 channel.

Encrypted Verification

The sDCM 350 offers 3DES (Triple DES) card verification and RS485 encrypted communications between the reader and the controller.

Off-line Card Verification

The card database is initially downloaded to the sDCM 350 internal memory from the CEM S9032/64 or RTC if using TCP/IP via the Ethernet Communications Module (ECM), with subsequent changes to card data automatically sent as updates. This ensures that the sDCM 350 has up-to-date card information when operating in off-line mode. Operating in off-line mode the controller can hold 200,000 cards.

Easy to Install

The sDCM 350 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.

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 . . . . . 185mA (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 . . . . . -10º to 55°C (14° to 131°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, *General Purpose or Interlock Tamper, Battery Low Dedicated Power Fail Input (For example mains fail on the PCB board)

Outputs. . . . . Two 12V open collector outputs limited to 1.5A (Door Lock and External Sounder) Two Relays rated at 30V@2A

Reader . . . . . 2 RS485 serial sPass smartcard readers

Configuration. . . . . Operational parameters are downloaded from host computer

Database memory. . . . . 2GB SD Card

Cardholders. . . . . Storage 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 . . . . . RS485 encrypted

To System Host. RS485

Host Connection . . . . . Terminal

Ordering Information

Product Code	Description
DCM/351/005	sDCM 350 (Board Only)
DCM/351/101	sDCM 350 (Includes enclosure, board & power supply/battery charger)

Related Products

AC2000 SE

AC2000 Lite

AC2000 AE

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