

sDCM 300 I/O Module

Input/Output Module

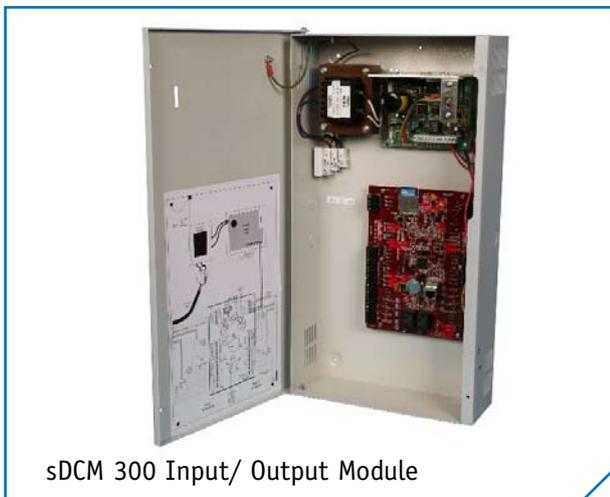
OVERVIEW

The sDCM 300 Input/Output Module provides a flexible means to monitor and control a wide array of external equipment, for example windows or machinery. An addition to the serial suite of devices for use on the CEM AC2000 system, the sDCM 300 I/O connects to the 9032/9064 controller. Additionally the sDCM 300 I/O can connect into an Ethernet based system via an ECM (Ethernet Communications Module) unit; if this is required.

The sDCM 300 I/O features eight analogue inputs and four outputs that are used to give spare inputs/outputs on the access control system. Each input can be cross-mapped to an output. A change of state to a particular input will cause a specific and definable output from the unit. This means for example an input can be taken from a motion detector and be used to trigger an intruder alarm siren.

The four outputs are comprised of two relay contacts and two open drain FET's acting as switches. The sDCM outputs can be used to control a wide variety of equipment including intruder panels, PIR detectors, heating and lighting controls.

In addition inputs on the sDCM 300 I/O can be used to activate a Broadcast Zone on the AC2000 system. The Broadcast can be configured to activate an output on a different sDCM 300 I/O or CEM device located anywhere on the network.



sDCM 300 Input/ Output Module

FEATURES

- Support for 8 inputs and 4 outputs
- Onboard serial connectivity
- Communicates directly with AC2000 9032 / 64 controller or ECM
- Inputs can be mapped to outputs on the same controller or across the network.
- Self resetting fuses – saves maintenance time
- Backup battery connection for emergency power (optional)
- Onboard LED - provides visual status
- Dedicated Tamper input
- Suitable for use with AC2000 Lite, SE and AE systems

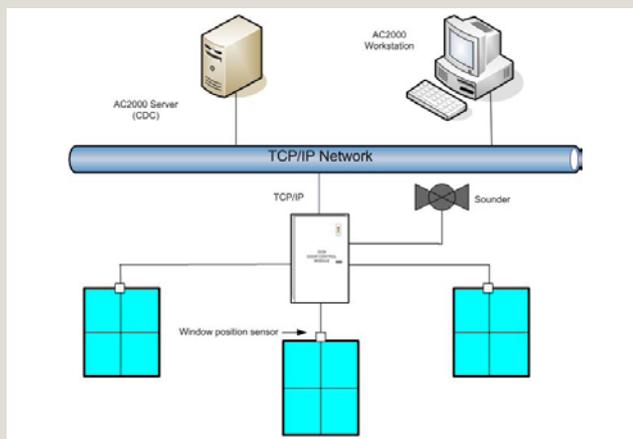
PRODUCT HIGHLIGHTS

Monitors external equipment

The sDCM 300 offers a flexible and affordable means of controlling external equipment such as intruder panels, PIR detectors, heating controls e.t.c

Input to Output mapping

The sDCM I/O will take specific inputs and map them to a particular output. This allows functionality such as proximity sensors being used to turn on lights; break glass switches, sounders, releasing door locks e.t.c.



Alarms

The sDCM 300 I/O will send input change alarms to the system host. In addition to this, unit tamper, mains failure and mains restored alarms will also be sent to the host controller.

Broadcasts

Broadcasts are commands from the AC2000 system to groups of peripheral devices to change state.

Any combination of outputs can be broadcast (active or inactive) at any time when the sDCM 300 I/O is online. When an output has been broadcast active a change of state to any related input will have no effect, broadcasts will be given priority. Broadcasting the output inactive again will revert back to the last configured input mapping condition.

During the period when an output is broadcast active the mapped inputs can still be configured to send input alarms to the system.

Additionally, an input changing state on an sDCM 300 I/O can activate an output on a different sDCM 300 I/O or CEM device.

TECHNICAL 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
Colour		Grey
Power		
	Board Only:	
	- Voltage	9- 14Vdc
	- Current	
	Consumption	170mA (excl. powered external devices)

Enclosure:		
	- Voltage	220-230 VAC 50/60Hz.
	- Current	
	Consumption	200mA (excl. powered external devices)
Backup Battery		Integral charging circuit provided with enclosure and space battery (Battery not supplied).

Environmental		
	- Temperature	-10° to 55°C (14° to 133°F)
	- Humidity	95% non condensing
LED Indicators		Power, Link to host, Comms Tx/Rx, Fault / Tamper, and Relay Status

FUNCTIONALITY

Inputs		8 x four-state transorb and tamper protected inputs
Outputs		4 Outputs (2 NO/NC Relays & 2 open collector FET switches)
Outputs		Two 12V open collector outputs limited to 1.5A
		Two Relays rated at 30V@5A
Configuration		Operational parameters are downloaded from host computer
Database memory		1GB SD Card
RTC Battery Backup Configuration		3.0V rechargeable Lithium-Operational parameters are downloaded from host computer.
Communication Interface To System Host		Serial connectivity (RS485)

PRODUCT CODES

IOC/310/004	sDCM 300 Input/Output Module (Board Only)
IOC/310/101	sDCM 300 Input/Output Module (Includes enclosure, board & power supply/ battery charger)

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.