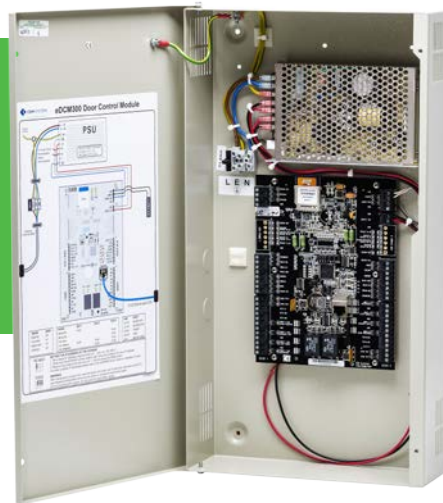


# eDCM 300 I/O module Input/Output Module



## Features that make a difference:

- Support for 8 inputs and 4 outputs
- Onboard 10/100 Mbps Ethernet
- Communicates directly with AC2000 RTC or AC2000 Lite System Server
- 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, AC2000 Lite and AC2000 Airport

The CEM eDCM 300 Input/Output Module provides a flexible means to monitor and control a wide array of external equipment. An addition to the Ethernet suite of devices for use on the CEM AC2000 system, the eDCM 300 I/O connects to the nearest network point to monitor for example windows or machinery.

The eDCM 300 I/O features eight analog 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 eDCM 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 eDCM 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 eDCM 300 I/O or CEM device located anywhere on the network.

## Monitors external equipment

The eDCM 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 eDCM 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 eDCM 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.

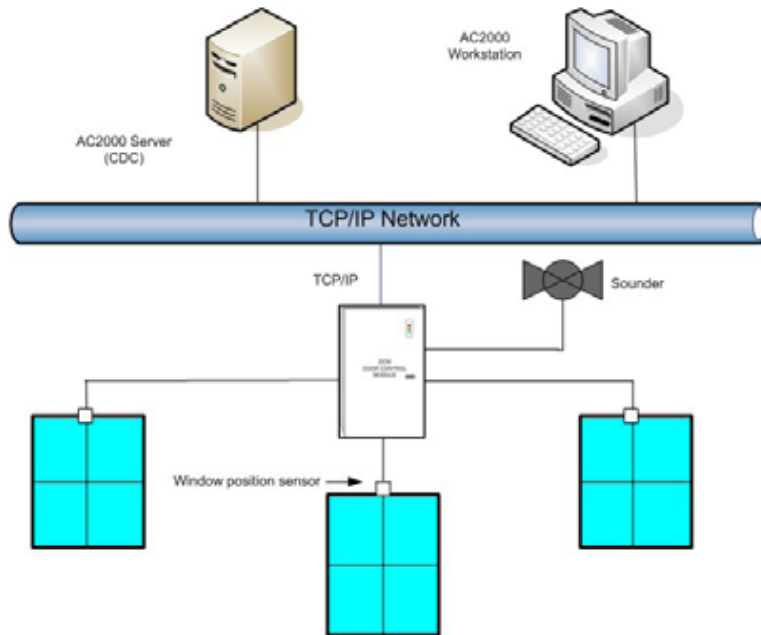
## Broadcasts

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 eDCM 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 eDCM 300 I/O can activate an output on a different eDCM 300 I/O or a CEM device.



## 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)
Output	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	3.0V rechargeable Lithium
Configuration	Operational parameters are downloaded from host computer.

### Communication Interface

To System Host	10/100 Base-T TCP/IP using CAT5e/6 Unshielded twisted pair cable
Connection	RJ45

## Ordering Information

Product Code	Description
IOC/300/006	eDCM 300 Input/Output Module (Board Only)
IOC/300/101	eDCM 300 Input/Output Module (Includes enclosure, board & power supply/battery charger)

## Related Products



AC2000  
AC2000 Airport  
AC2000 Lite

[www.cemsys.com](http://www.cemsys.com)