

sDCM 300 I/O Module

Input/Output Module



Features that make a difference:

- 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

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.

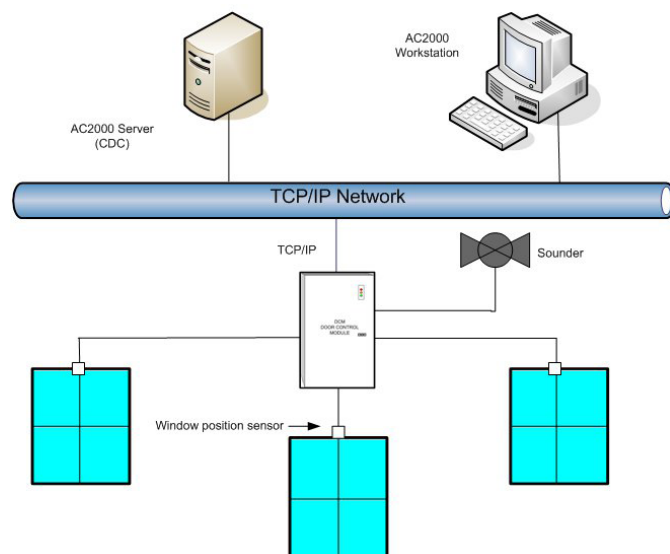
In addition inputs on the sDCM 300 I/O can be used to activate a Broadcast Zone on the AC2000 system. The Broadcast can be configured to activate an output on a different sDCM 300 I/O or CEM device located anywhere on the network.

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.

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
 Color Gray

Power

Board Only
 Voltage 9 -14Vdc
 Current 170mA (excl. powered external devices)
 Enclosure
 Voltage 220-230 VAC 50/60Hz.
 Current 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 3.0V rechargeable Lithium-Configuration Operational parameters are downloaded from host computer.

Communication Interface

To System Host Serial connectivity (RS485)

Ordering Information

Product Code	Description
IOC/310/006	sDCM 300 Input/Output Module (Board Only)
IOC/310/101	sDCM 300 Input/Output Module (Includes enclosure, board & power supply/battery charger)

Related Products



AC2000
 AC2000 Lite
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