



# Axiom™

## IOC-16 INPUT/OUTPUT CONTROLLER

The IOC-16 Input/Output Controller is a part of the Axiom line of access control products from RBH. Its powerful design features address present and future access and security management needs with ease and efficiency.

The IOC-16 has unmatched flexibility, monitoring, and control capabilities.

- **Fully field configurable...**
  - Allows any one of the 16 I/O ports to be used either as an input or an output. The flexible software options of the Axiom system allow any I/O port to be linked to any event, or programmed string of system-wide events, without any restriction.
- **Multiple levels of input supervision...**
  - All input points can be individually configured for one of seven levels of supervision, ranging from no supervision to maximum security, dual resistor supervision.
- **Built-in fire signal supervision...**
  - Designed to exceed all levels of safety considerations, the IOC-16 has an independent built-in fire signal safety release, together with an independent installer-selectable failsafe output release for mag-locks.
- **Built-in lightning protection**
- **Plug-in terminal connectors**
- **Silk screened terminal legend**
- **Twenty-eight on board diagnostic LED's**
- **Elevator Control**
- **Built-in cabinet tamper**
- **Rugged Metal Case**

Power Requirements :	16.5VAC 40VA transformer
Current Consumption :	500 mA max (with all relays energized)
Battery Charging Output :	<ul style="list-style-type: none"> <li>• Charging voltage 13.8V regulated</li> <li>• Built-in deep discharge protection</li> <li>• Dynamic load test</li> </ul>
Back-up Battery :	12V, 7AH lead acid or gel cell
Auxiliary Power Output :	12V at 1A (fused)
Fuses (Supervised)	Battery : 3A Auxiliary power : 1A AC power : 3A
Inputs/Outputs :	16 I/O ports fully selectable as inputs or outputs
Output Types :	Up to 16 Form C relays, SPDT 2A @ 30VDC, dry contacts
Input Types :	<ul style="list-style-type: none"> <li>• Up to 16 supervised inputs</li> <li>• Fully programmable for 1, 2 or No End-of-Line Resistor (1K)</li> <li>• Analog Loop Resistance measurement and reporting</li> <li>• Dedicated Cabinet Tamper Switch input</li> <li>• Dedicated Fire Alarm input</li> </ul>
I/O Cable :	Type : 20-22AWG, 2 conductor Distance : Max 1000ft (300m)
Communications :	Designation : D-NET Network Type : RS485 high speed network Speed : 38,400 bits/second Ports : 2 x RS485 ports (fully supervised) Circuit Type : Ring (short or open circuit protection) Cable Requirement : Shielded, twisted pair, 20 - 22AWG Cable Distance : 3,000ft (900m) between devices 15,000ft (4,550m) total
On-Board Diagnostics	Status : <ul style="list-style-type: none"> <li>• 16 x Input/Output Status LEDs</li> <li>• 1 x Fire Signal Status LED</li> </ul> Comms : <ul style="list-style-type: none"> <li>• 2 x RX, TX Communication LEDs</li> <li>• 1x Run LED</li> </ul> Power : <ul style="list-style-type: none"> <li>• 4 x On/Off Status LEDs</li> </ul> Fuses : <ul style="list-style-type: none"> <li>• 4 x Fuse Blown LEDs</li> </ul>
Dimensions :	9.75" H x 6.875" W x 3.25" D (25 x 18 x 10cm)
Operating Temperature :	0 to 70°C (35 - 150°F)
Operating Humidity :	20 to 80% RH (non-condensing)