

Axiom V

RBH - RC2 READER CONTROLLER



The RC-2 Reader Controller is part of the Axiom line of access control products from RBH. Its versatile design features take care of present and future needs with ease and efficiency.

The RC-2 is one of the most rugged and reliable reader controllers on the market, with a multitude of built-in features found only in high-end custom designed systems until now.

- **Multiple built-in, regulated power supplies...**
 - Independently fused electric lock, reader, auxiliary battery and AC Power, complete with fuse status indication and monitoring.
- **Supports fully supervised RS485 communications...**
 - Dual RS485 ports designed to ensure data communications integrity in the event of wiring short circuit or cut cable.
- **Supports eight independent inputs with multi-level supervision...**
 - All inputs are fully programmable and can be configured for one, two, or no end-of-line resistor supervision. This allows the inputs to be used for any level of high security.
- **Supports two readers of ANY technology...**
 - Compatible systems include Proximity, Mag Stripe, Bar Code, Barium Ferrite, RF, Wiegand & Biometric.
- **Built-in lightning protection**
- **Plug-in terminal connectors**
- **Silk screened terminal legend**
- **26 on-board diagnostic LEDs**
- **Field configurable I/Os**
- **Built-in fire signal supervision**
- **Built-in cabinet tamper**
- **Rugged metal case**

Power Requirements :	1 x 16.5VAC 40VA transfmr. - controller & aux
Door Lock Power :	1 x 12/18VAC 80VA transfmr. for up to 3A
Current Consumption :	400mA max (controller)
Battery Charging Output :	<ul style="list-style-type: none"> • Charging voltage 13.8V regulated • Built-in deep discharge protection • Dynamic load test
Recommended Back-up Battery :	12V, 7AH lead acid or gel cell
Power Output to Reader :	<ul style="list-style-type: none"> • 12V at 1A (fused) • 5V at 1A (fused) • Aux power: 12V at 1A (fused)
Fuses (Supervised)	Battery : 3A Reader Power : 1A Auxiliary Power : 1A AC Power : 3A Lock Power : 3A
Reader Connection :	<ul style="list-style-type: none"> • Supports up to 2 readers (multiple format) • On-board reader tamper monitoring • Supports red and green reader LED outputs • Supports reader audible
	Cable Type : 20 - 22AWG 6 or 8 conductor stranded shielded Cable Distance : Max 500ft (150m) (20AWG)
Outputs :	<ul style="list-style-type: none"> • 4 x Form C relays, SPDT 2A @ 30VDC, dry contacts • 4 x electronic drivers, (max 100mA)
Inputs :	<ul style="list-style-type: none"> • 8 x fully supervised circuits, 1, 2 or no EOL resistor (1K) • 1 x dedicated Cabinet Tamper Switch Input • 1 x dedicated Fire Alarm Input • Analog loop resistance measurement and reporting
Input/Output	Cable Type : 20-22AWG, 2 conductor Cable Distance : Max 1000ft (300m)
Communications	Designation : D-NET Speed : 38,400 bits/second Ports : 2 x fully supervised RS485 ports Circuit type : Ring (short or open circuit protection) Cable Type : Shielded twisted pair 20 - 22AWG Cable Distance : 3,000ft (1,000m) between devices 15,000ft (4,550m) total
On-Board Diagnostics	Status : <ul style="list-style-type: none"> • 8 x Output Status LEDs • 8 x Input Status LEDs • 1 x Fire Signal Status LED Comms : <ul style="list-style-type: none"> • 2 x RX, TX communication LEDs • 1x Run LED Power : <ul style="list-style-type: none"> • 4 x On/Off Status LEDs Fuses : <ul style="list-style-type: none"> • 4 x Fuse Blown LEDs
Dimensions :	9.75"H x 6.875"W x 3.25" D (25 x18 x 10cm)
Operating temperature :	0 to 70°C (35 -150°F)
Operating Humidity :	20 to 80% RH (non-condensing)