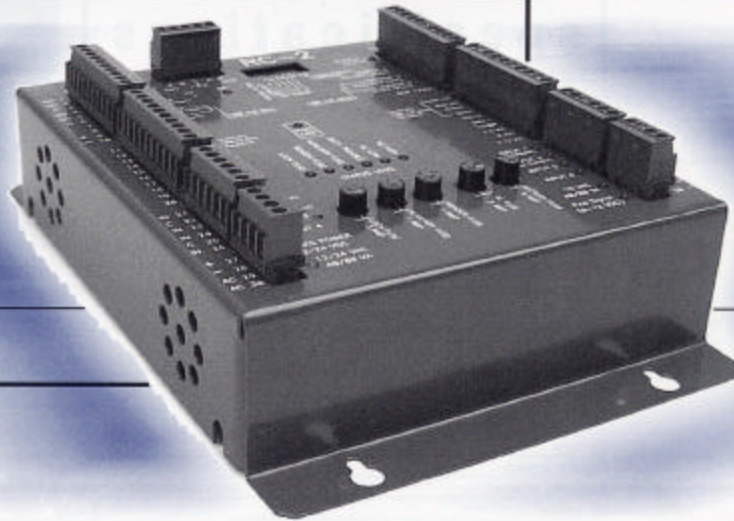


# RC-2 Reader Controller



The RC-2 Reader Controller is part of the Axiom III™ 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.

## FEATURES

- **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 known 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
- Silkscreened terminal legend
- 26 on-board diagnostic LEDs
- Field configurable I/Os
- Built-in fire signal supervision
- Built-in cabinet tamper
- Rugged metal case



# RC-2 Reader Controller

## specifications



Controller Power Requirements:	1 x 16.5 V AC 40VA transformer	Controller & Aux
Door Lock Power:	1 x 12/18 V AC 80VA transformer	For up to 3 Amps
Current consumption:	400 mA max (Controller)	
Battery Charging Output:	Charging voltage 13.8 V regulated Built-in deep discharge protection Dynamic load test	
Recommended Back-up Battery:	12 V 7 AH Lead Acid or Gel Cell	
Power outputs:	Reader power:	12 V at 1 A (fused) 5 V at 1 A (fused) Aux power; 12 V at 1 A (fused)
Fuses: (Supervised)	Battery	4 Amp
	Reader power	1 Amp
	Auxiliary power	1 Amp
	AC power	3 Amp
	Lock power	3 Amp
Reader Connection:	Supports up to 2 readers (Multiple Format.) On-board reader tamper monitoring Supports red and green reader LED outputs Supports Reader Audible	
Cable Requirement	Type:	20 - 22 A WG 6 or 8 Conductor Stranded Shielded
	Distance:	Max 500Ft (20 A WG)
Outputs:	4 x Form C relays, SPDT 2A @30VDC, dry contacts 4 x Electronic drivers, (Max 100 mA)	
Inputs:	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	
Cable Requirement	Type:	20-22 AWG 2 Conductor
	Distance:	Max 1000Ft (300M)
Communications:	Speed:	38400 bits/second
Designation: D-NET (Device Network)	Ports:	2 x Fully Supervised RS485 Ports.
Cable Requirement:	Circuit type:	Ring (Short or Open Circuit Protection)
	Type:	Shielded Twisted Pair 20 - 22 A WG
	Distance:	3000Ft (1000M)
On-Board Diagnostics:	Status:	8 x Output status LEDs 8 x Input status LEDs 1 x Fire Signal Status LED
	Comms:	2 x RX, TX communication LEDs 1x Run LED
	Power:	4 x On/Off Status LEDs
	Fuses:	4 x Fuse blown LEDs
Dimensions:	H9.75in x W6.875in x D3.25in (25 x18 x 10cm)	
Operating temperature:	0 to 70°C (35 -150°F)	
Operating Humidity	20 to 80%Yo RH (non-condensing)	
©1995-2002 RBH, Inc.		

