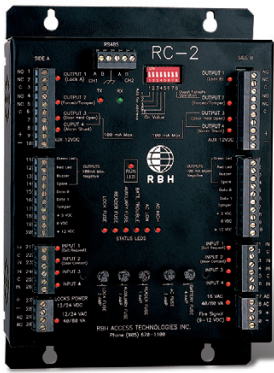The RC-2 Reader Controller is part of the Axiom line of access control products from RBH. Its versatile design features take care of present and future needs with ease and efficiency.

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 wiringshort 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**

Axiom™

RC-2 READER CONTROLLER

Power Requirements :		1 x 16.5 VAC 40 VA transfmr. - controller & aux
Door Lock Power :		1 x 12/18 VAC 80 VA transfmr. for up to 3 A
Current Consumption :		400 mA max (controller)
Battery Charging Output :		• Charging voltage 13.8V regulated • Built-in deep discharge protection • Dynamic load test
Recommended Back-up Battery :		12 V, 7 AH lead acid or gel cell
Power Output to Reader :		• 12 V at 1 A (fused) • 5 V at 1 A (fused) • Aux power: 12 V at 1 A (fused)
Fuses (Supervised)	Battery :	3 A
	Reader Power :	1 A
	Auxiliary Power :	1 A
	AC Power :	3 A
	Lock Power :	3 A
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 Type :	20 - 22 AWG 6 or 8 conductor stranded shielded
	Cable Distance :	Max 500 ft (150 m) (20 AWG)
Outputs :		• 4 x Form C relays, SPDT 2 A @ 30 VDC, 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
Input/Output	Cable Type :	20-22 AWG, 2 conductor
	Cable Distance :	Max 1000 ft (300 m)
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 - 22 AWG
	Cable Distance :	3,000 ft (1,000 m) between devices 15,000 ft (4,550 m) total
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 :		9.75" H x 6.875" W x 3.25" D (25 x18 x 10 cm)
Operating temperature :		0 to 70°C (35 -150°F)
Operating Humidity :		20 to 80% RH (non-condensing)