

Dual Reader Interface Module



Overview

The RSC-2 is a two-reader interface module designed to connect a wide range of security devices in access control solutions. The RSC-2 supports interfacing 2 card readers, 8 monitor points and 6 relay outputs to any Open Options intelligent controller. Up to two entry/exit door applications (4 readers total) are supported when connected to OSDP readers. The Series 3 RSC-2 has the same reliable interface and footprint as the Series 2 modules, enabling seamless upgrades for existing deployments.

When connected to an Open Options intelligent controller, the RSC-2 can relate the activities of selected system devices to other devices within the system, generating actions and allowing activities to occur independent of the host. The RSC-2 can also locally process access requests based on facility code verification, even when disconnected from an intelligent controller.

RSC-2

(Mercury MR52 - Series 3)

Features

- 12 or 24 VDC power
- 2 reader ports - supports Data1/Data0, Clock/Data, Supervised and Unsupervised F2F and OSDP compatible RS-485 readers and keypads
- 8 programmable inputs w/optional supervision
- Six Form-C relay outputs (fail-safe or fail-secure)
- Downloadable firmware
- Bicolor reader status LED and 2-wire LED support
- Dedicated tamper and power failure circuits
- Support for offline reader access mode
- On-board jumpers for termination
- On-board regulator allows 12 VDC reader support from 24 VDC power source
- DIP switch-selectable addressing
- Compatible with current and previous versions of DNA Fusion™

Benefits

- **Open Architecture:** Mercury high performance, reliable open hardware platform
- **OSDP Protocol:** Supports OSDP and Secure Channel protocol for device connectivity, file transfer and extended applications such as biometrics and FICAM profile support
- **Enhanced Security:** Embedded crypto memory chip provides secured layer of encryption to protect sensitive data (AES 128-bit or 256-bit)

RSC-2 Dual Reader Interface

Specification

Primary Power	12-24 Vdc +/- 10%, 550mA maximum
Host Comm	RS-485, 2-wire, 4,000' (twisted pair with shield, Belden 9841)
Reader Ports	2 Reader Ports*
Card/Keypad Data	OSDP, Clock/Data, Data-1/Data-0, RS-485, or F/2F
Keypad	8-bit Mercury, 8-bit Dorado/HID, 4-bit HID
Reader Power	Pass-through or 12 Vdc regulated 300mA each reader
LED	One-wire bi-color LED or two-wire LED
Buzzer	Only with 'one-wire' LED
Inputs	8 General Purpose: Programmable circuit type 2 Dedicated: Tamper and Power Monitor
Relay Outputs	Six Form-C Relays: Normally open contact (NO): 5A @ 30 Vdc resistive Normally closed contact (NC): 3A @ 30 Vdc resistive
Dimensions	6.0" W x 8.0" L x 1.0" H, (152mm W x 203mm L x 25mm H)
Temperature	0-70 °C operational, -55-85 °C storage
Humidity	5 to 95% RHNC
Standards	UL 294 recognized, CE compliant, RoHS, FCC Part 15 Subpart B

*Note: Up to two entry/exit door applications (4 readers total) are supported when connected to OSDP readers.

Application

