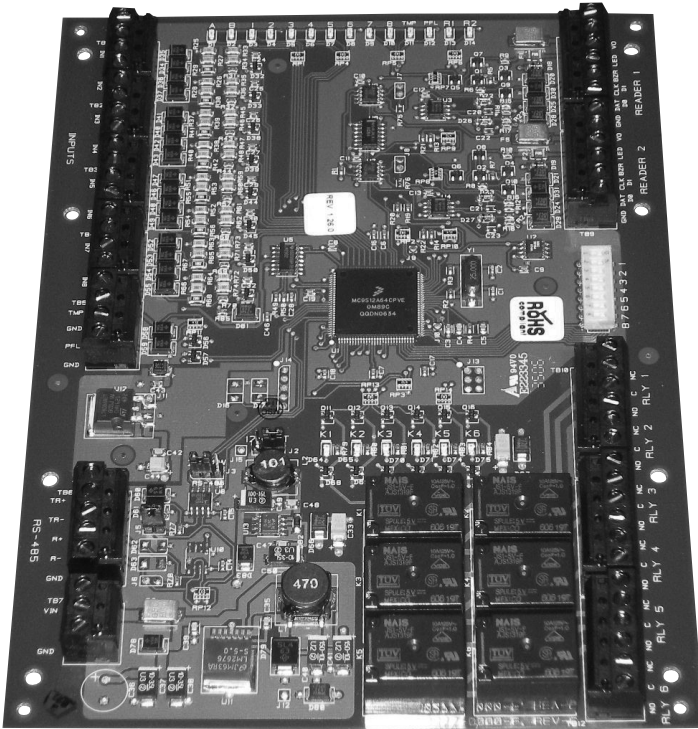


The Two-Reader Board is the interface between any IDenticard® PremiSys™ controller and up to two card readers. The board also incorporates eight input points and six output relays that can be used for door functions such as door-position monitoring, request-to-exit, door locks or for other purposes within the access control system. The Two-Reader Board supports ABA- and Wiegand-format readers in a wide variety of reader types, including smart card and biometric readers, as well as keypads.

Features

- **Communications with controllers or MUXes** are two-wire RS-485.
- **Each of two reader ports** provides the following connections: input power, card data (Clock & Data or Data 1 & Data 0), LED, buzzer and ground.
- **The Two-Reader Board can be housed in a sturdy and optionally lockable enclosure** with its controller and/or other components.
- **The Two-Reader Board itself includes the following components:**
 - ~ Six relays configurable for normally open or normally closed operation
 - ~ Eight general-purpose input points that can be supervised or not to serve as door-input points, request-to-exit points, etc.
 - ~ Two dedicated input points for monitoring power loss to the board and enclosure tampering
 - ~ A DIP switch for addressing the board and setting other parameters
 - ~ LEDs to indicate board and relay status



PremiSys™ Two-Reader Board

PREM-BRD2RDR

PremiSys™ Two-Reader Board

Specifications

Board Certifications

UL: recognized to UL 294: Access Control System Units - component
CE: EN55022, EN50082-1, IEC801-2, IEC801-3 and IEC801-4

Dimensions and Weight

Board Width	8.0 inches (203 mm)
Board Height	6.0 inches (152 mm)
Board Depth	1.0 inch (25 mm)
Board Weight	11 ounces (312 g) (nominal)

Environmental Specifications

Temperature	32°F to 158°F (0°C to 70°C) operating -67°F to 185°F (-55°C to 85°C) storage
Relative Humidity	0 to 95% RH noncondensing

Power Specifications

CAUTION! This component is intended for use only in a Class 2, low-voltage circuit!

Two-Reader Board Input Voltage	12 VDC \pm 10%, 550 mA peak (plus reader current), 450 mA (plus reader current) nominal
Relay Rating (each of six relays)	5 A at 28 VDC, noninductive load
Card Reader Power (each of two readers)	12 VDC \pm 10% regulated, 125 mA max. each reader, or 12-24 VDC \pm 10% (input voltage passed through), 125 mA max. each reader; min. 20 VDC at input needed to yield 12 VDC at reader port
Reader LED Output	TTL-compatible; high > 3 V, low < 0.5 V; 5 mA source/sink maximum
Reader Data Inputs	TTL-compatible inputs

Wiring Specifications

Power to Two-Reader Board	One twisted pair, 18 AWG (0.823 mm ²)
RS-485 Connections to Controllers	Twisted pairs, 22 AWG (0.325 mm ²), with shield. Maximum cable length: 4000 feet (1219 meters) of wire, total copper, including drops
Connection to Relay-Controlled Devices	Use wire and gauge as required by load
Connection to Input-Point Devices	One twisted pair per input, 30 ohms maximum
Connection to Readers	Refer to the reader manufacturer specifications for cabling requirements. Maximum cable length: 500 feet (150 m), total copper, including drops.

Communications Specifications

To Controller or MUX	Two-wire RS-485, via TB1, 2400 to 38,400 bps
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Access Control Specifications

Inputs – Assignable	Eight input points, end-of-line (EOL) resistors, 1K/1K ohm 1% ¼ watt standard
Inputs – Dedicated	Two unsupervised, dedicated input points for enclosure tamper and power loss
Relays	Six relays configurable for normally open or normally closed operation
Relay Contact Type	Form C
Relay Configuration	Single-pole double-throw (SPDT)

Indicators

Visible	Twenty red, single-color LEDs
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