

SCP-2 Two Door Controller



Overview

The SCP-2 is the next generation intelligent controller. With a proven track record of reliability, versatility and performance, the SCP-2 can be configured in different ways to satisfy the requirements of any system. An expanded feature set that offers new connection options and support for new standards, the SCP-2 is the controller of choice.

Product Highlights

- The SCP-2 provides central control of up to 32 sub-controllers, including 1 on-board sub-controller, and up to 64 readers.
- The SCP-2 contains 16MB of memory enabling up to 250,000 cardholders and a 50,000 transaction buffer.
- The SCP-2 is a single board solution for two-door control. Each reader port can accommodate a readhead that utilizes wiegand, magnetic stripe, or 2-wire RS-485 electrical signaling standards, one or two wire LED controls, and buzzer control (one wire LED mode only).
- The event log buffer is stored in battery backed memory.
- Four form-C relay outputs may be used for strike control or alarm signaling.
- Eight inputs may be used for monitoring door contacts, exit push buttons and alarm contacts.
- Additional I/O devices can communicate via the Sub-Controller communication port, 2-wire RS-485.
- Configuration data and event/status reports are exchanged with the host via port 0, 10-BaseT/100Base-TX Ethernet interface or port 1, RS-232 interface.

Connection

Primary Port: 10/100 Ethernet
IP Server, IP Client, DHCP Client
HTTP, TLS, X.509, SNMP
RS-232, Dial-up

Door Control

Two reader ports: Mag, Wiegand, or RS-485
Eight supervised inputs, four relays
Diagnostic LEDs

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Technical Specifications

Primary Power	12-24Vdc \pm 10%, 500mA maximum (reader current not included) 12Vdc @ 250mA (plus reader current) nominal 24Vdc @ 150mA (plus reader current) nominal
Memory and Clock Backup Battery	3 Volt Lithium, type BR2325, BR2330 or CR2330
Host Communication	Ethernet: 10BaseT/100Base-TX, and RS-232 9,600 to 115,200 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit
Sub-Controller Communication	2-wire RS-485, 2,400 to 38,400 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit
Inputs	2 dedicated for tamper and UPS fault monitoring 8 for door position monitoring, request to exit or alarm contacts
Relays	4, Form-C, 5A @ 30Vdc, resistive
Reader Interface	
Reader Power (jumper selectable) or	12Vdc \pm 10% regulated, current limited to 150mA for each reader
Data Inputs	12 to 24Vdc \pm 10% (input voltage passed through) current limited to 150mA for each reader
RS-485 Mode	TTL compatible inputs, mag stripe and wiegand standards supported Maximum cable length: 500' (152m)
LED Output	9600 bps, asynchronous, half-duplex, 1 start bit, 8 data bits, and 1 stop bit Maximum cable length: 4000' (1,200m)
Buzzer Output	TTL levels, high>3V, Low<0.5V, 5mA source/sink maximum TTL levels, high>3V, Low<0.5V, Low=Active, 5mA source/sink maximum
Cable requirements	
Power	1 twisted pair, 18 AWG
Ethernet	CAT-5
RS-485	24AWG, 4,000ft (1,200m) maximum, twisted pair(s) with an overall shield
RS-232	24AWG, 25ft (7.6m) maximum
Alarm Input	1 twisted pair, 30 ohms maximum, typically 22 AWG @ 1000ft (300m)
Environmental	
Temperature	0 to 70 °C, operating, -55 to +85 °C, storage
Humidity	0 to 95% RHNC
Mechanical	
Dimension	8 in. (203.2mm) W x 6 in. (152.4mm) L x 1 in. (25mm) H
Weight	9 oz (255 gm) nominal, board only