

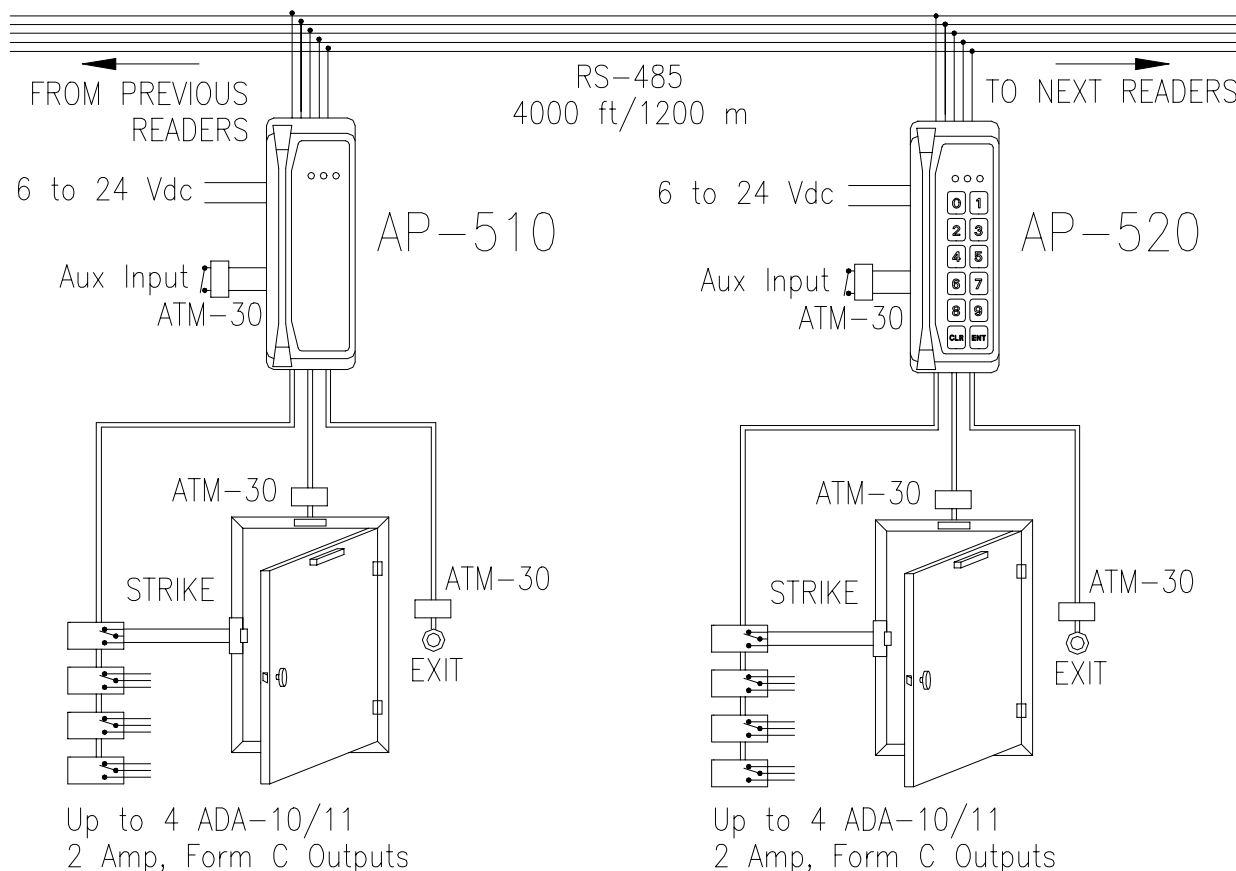
# AP-510/520

## Intelligent Slave Card Reader with Supervised Inputs

The AP-510 or AP-520 card reader, with its RS-485 communication interface, is typically used as a slave reader in the AP-550, 34 reader access control system. Up to 32 AP-510/520 readers can be multi-dropped from the AP-550 master reader or AAM-16/20/80 controllers. The AP-550 system is significantly more cost effective than competitive access systems because it does not require installation and wiring of any access control panels.

### AP-510/520 Features:

- Wide input voltage range (+6 to +24 Vdc)
- Low power/surface mount/1 million pass read head
- Small, rugged, die cast aluminum (mullion mount)
- Complete array of coordinated mounting hardware
- Mounts with security screw/tamper switch
- Attractive, weatherized finishes
- 3 LEDs for access and reader status
- 12 position keypad, with audible feedback
- Interfaces to AP-550, AAM-16/20/80 controllers
- RS-485 multi-drop (4,000 ft/1,200 m)
- Bi-directional card swipe/Digital strike control
- 4 Supervised inputs: door contact, exit push button, and 2 alarm inputs / 4 outputs
- Installs easily with plug-in connectors



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## OPERATION

The AP-510/520 reads the user's encoded card, accepts a PIN input from the keypad (AP-520), buffers the data and sends it to the master reader or controller when interrogated. The AAM-16/20/80 or AP-550 master card reader makes an access decision then sends the access granted/denied to the AP-510/520 slave reader. If access is granted, the AP-510/520 sends an encoded digital signal to the door where an ADA-10/11 door strike receiver releases the strike. The reader also collects the status of the door contact, tamper, exit push button, and auxiliary input, and then sends the changes of status to the master reader upon interrogation.

## ORDERING INFORMATION

### Enclosure Finishes

The AP-510 and AP-520 readers have die-cast aluminum enclosures which are available in a variety of finishes. Use the table below to specify the desired finish. When ordering, add the finish number, preceded with a dash, immediately following the part number.

### Mounting Hardware

Mounting hardware for the AP-500 series is also ordered as an extension of the base part number. Add -P (for plate), -B (for box), or -N (for none), after the finish number.

### Extended Wear Read Head

The extended wear read head is also ordered as an extension of the base part number. Add -X for the extended wear read head, or -S for the standard (1 million pass) head, after the mounting hardware number.

Example: The complete part number of an AP-510 with, a black powder coat finish, a mounting plate, and an extended wear read head would be: 400-130-0-P-X.

Model Number	Part Number	Description
AP-510	400-130	System slave reader with RS-485
AP-520	400-140	System slave reader with RS-485 and keypad
AMP-4	400-630	Mounting plate for installing reader on a single-gang electrical box
ABX-2	400-650	Surface mounting box
ARH-10	400-500	Extended wear read head (4 million passes)
ADA-10	400-400	Digital receiver module
ATM-30	470-031	Alarm zone terminator

Finish Number	Card Reader Enclosure Finish	Outdoor Use	Added Cost
0	Black Powder Coat	Yes	No
1	Beige Powder Coat	Yes	No
2	Gray Powder Coat	Yes	No
3	Line Grain/Clear Coat	No	Yes
4	Chrome Plate	No	Yes
5	Antique Brass Plate	No	Yes
6	Brass Plate	No	Yes

## SPECIFICATIONS

Dimensions:	5.6"L x 1.98"W x 1.5"H (14.2 x 5 x 3.8 cm)
Weight:	0.4 lb. (0.18 kg)
Operating Temperature Range:	-40 to +85° C (-40 to +185° F)
Humidity Range:	0 to 95%, non-condensing
Power Requirements:	+6 to +24Vdc @ 25mA

Note: Information contained in this document is subject to change without notice.

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