



With these powerful add-on modules, the apC or apC/8X provides greater functionality of your access control, alarm monitoring, and integrated security applications.

The I8 Input Bus Module provides eight Class-A supervised inputs. A total of eight input modules can be connected to one apC or apC/8X and a total of four input modules can be connected to one apC/L.

The R8 Output Bus Module provides an additional eight Form C dry contact relay outputs. A total of eight output modules can be installed on one apC or apC/8X and a total of four output modules can be installed on one apC/L. Output and Input modules connect on the card reader bus reducing wiring.

### FEATURES & BENEFITS

- Remote monitoring up to 4,000 ft away from apC
- Shares reader wiring
- Provides an additional 8 Supervised Inputs
- Provides an additional 8 Supervised Outputs
- Connect directly to the RS-485 line
- Reduce sensor and control wiring
- Input switches located up to 2,000 ft (609.6 meters) away from Input Module
- Supervised inputs terminated with onboard resistors.

## GENERAL REQUIREMENTS

### Electrical

#### Power Supply

##### Input Board

Current ..... 120 Ma (milliamps)  
Voltage ..... 12 Volts Nominally

##### Output Board

Current ..... 100 Ma +20 Ma per active relay  
Voltage ..... 12 Volts Nominally

##### Output Board Relay Contact Ratings

..... 4 Amp 125V ac  
..... 2 Amps 30V dc non-inductive  
..... 1 Amp 30V dc inductive load

#### Enclosures

We have identified 2 enclosure types (with NEMA/CEMA 4, 4X, 12 and 13 ratings, and JEC 529 rating IP66-11) from the following vendor as compatible with the input/output board footprints:

Vynckier

249 McCarty Drive

Houston, TX 77029

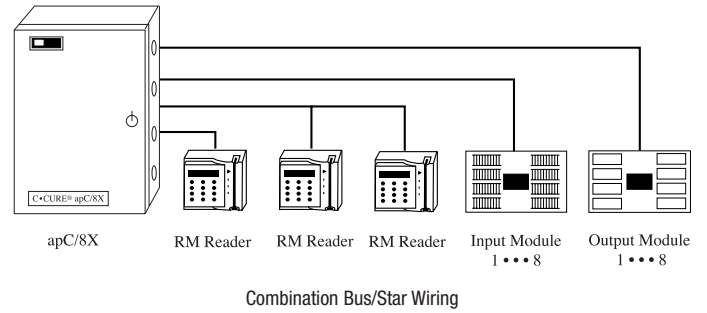
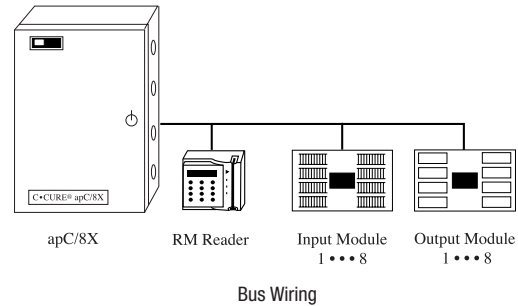
Phone: +1 (713) 672-2471

Fax: +1 (800) 444-1261

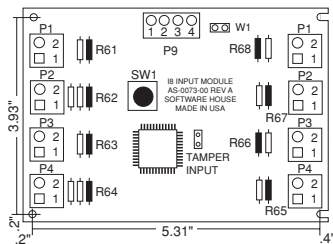
Type 1: 14321.XXX and 3500.XXX

(refer to apC technical manual 5-26 and 5-27 for further information)

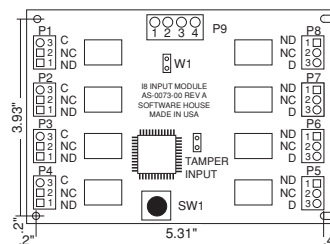
## SAMPLE SYSTEM CONFIGURATION



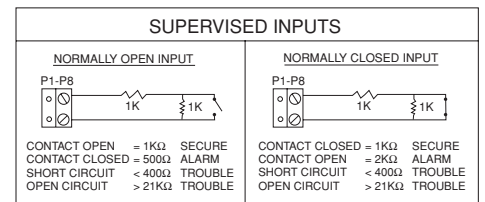
## WIRING CONFIGURATION DIAGRAM



18 Input Module Configuration



8 Output Module Configuration



## WIRING SUMMARY-APC/8X

Signal	From	To	Belden #	Gauge	# of Pairs	Shielded	Maximum Length
Comm (2-wire RS485)	apC	I8/R8	9841*	24	1	Yes	4,000 ft
Control Point	R8	Strike/Siren etc.	8442/8461	18	1	No	Based on voltage drop
Supervised Input	I8	REX or Door Contact, etc.	8442/8461	22/18	1	No	2000 ft

NOTE: Control, Supervised, and Unsupervised input cables must be shielded for FCC Class B operation. \* For plenum or underground applications, use Belden 89182 for 1 pair 22 AWG, 100 ohm 12.95 pf/ft.