



# APPLICATION Note

TELECOM SOLUTIONS FOR THE 21ST CENTURY

Using the AES-2000 with Multiple C-3000 Controllers

May 8, 2014

## Expand Capacity of the AES-2000/C-3000 Combination from 96 Tenants Up to 288 Tenants



Model AES-2000

A bank of eight C-3000's has a 96 tenant capacity. By using a C-1000B, three groups of eight C-3000's can be combined, expanding tenant capacity up to 288.



Model C-3000



Model C-1000B

<http://www.vikingelectronics.com>

Phone...715.386.8861

## Installation

The following steps are to be used in conjunction with the diagram on the following page (page 2).

<b>Step 1.</b>	Connect a pair of wires from the AES-2000's C-3000 screw terminals to the C-1000B's LINE OUT TO PHONES screw terminals.
<b>Step 2.</b>	To connect the first group of eight C-3000s: Connect the C-1000B's LINE IN screw terminals to the Master 1 C-3000's ENTRY 1 screw terminals.
<b>Step 3.</b>	To connect the second group of eight C-3000s: Connect the C-1000B's DOOR BOX 1 terminals to Master 2 C-3000's ENTRY 1 screw terminals.
<b>Step 4.</b>	To connect the third group of eight C-3000s: Connect the C-1000B's DOOR BOX 2 terminals to Master 3 C-3000's ENTRY 1 screw terminals.
<b>Step 5.</b>	Set DIP switch 3 of the C-1000B to the OFF position and set Talk Battery switch to OFF.
<b>Step 6.</b>	A telephone line can be connected to the AES-2000's CO screw terminals for remote AES-2000 programming or calling tenants that do not have phone service.

**Note:** Connect the group of eight C-3000s in a Master/Slave configuration as shown in the C-3000 Technical Practice.

## Programming

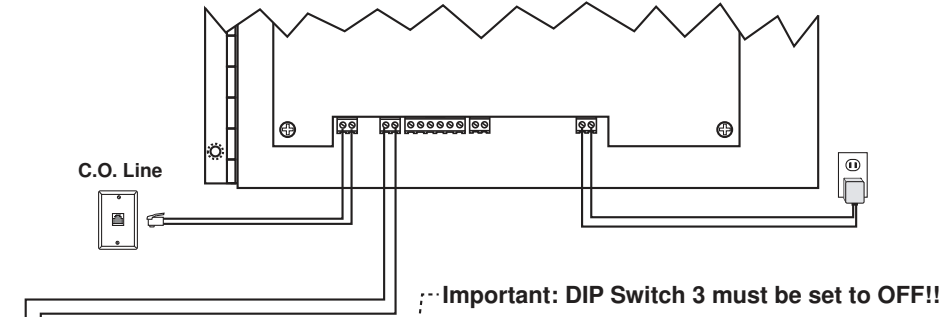
For the AES-2000 and the C-3000 to work in harmony, program them to have identical phone entry Call Times and Ring Counts. Failure to do so will result in unexpected disconnect. The AES-2000 Call Time and Ring Count fields are found in the Building Selection's "Setup" pull down menu, under "Parameters." See the C-3000 Technical Practice, Programming section B for programming the Call Time and Ring Count on the C-3000s.

When programming the AES-2000's Apartment Selection screen, a "C" in entered before the tenant's phone number to access the first C-3000 group. The second and third C-3000 groups require a "C" and a "#1" or a "#2" before the tenant's phone number.

**For Example:** C01 - C96 for group one, C#1,01 - C#1,96 for group two, C#2,01 - C#2,96 for group three.

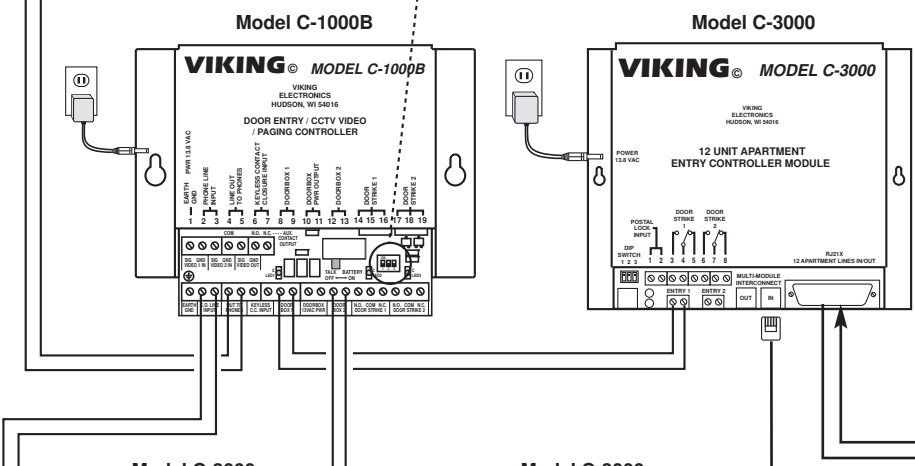
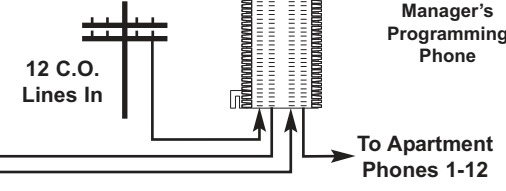
**Important:** The comma shown in the dialing string is for a 2 second pause, which is required for the C-1000A to switch to group 2 or 3.

Rear View of the AES-2000

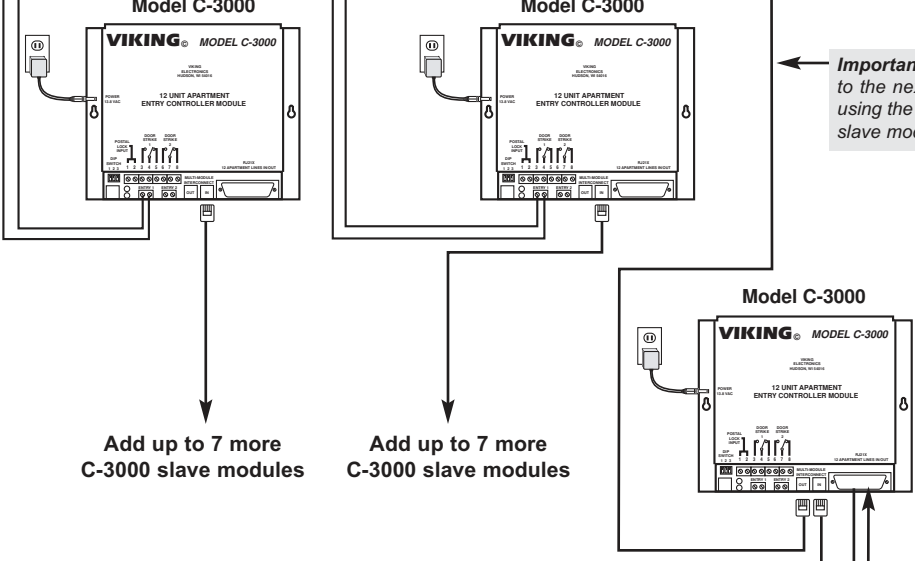


Bridged		Bridged	
Row 1 C.O. Lines	Row 2 C-3000	Row 3 C-3000	Row 4 Apt Phns
1T	26 W/BL	27 W/O	1T
1R	1 BL/W	2 O/W	1R
2T	28 W/G	29 W/BN	2T
2R	3 G/W	4 BN/W	2R
3T	30 W/S	31 R/BL	3T
3R	5 S/W	6 BL/R	3R
4T	32 R/O	33 R/G	4T
4R	7 O/R	8 G/R	4R
5T	34 R/BN	35 R/S	5T
5R	9 BN/R	10 S/R	5R
6T	36 BK/BL	37 BK/O	6T
6R	11 BL/BK	12 O/BK	6R
7T	38 BK/G	39 BK/BN	7T
7R	13 G/BK	14 BN/BK	7R
8T	40 BK/S	41 Y/BL	8T
8R	15 S/BK	16 BL/Y	8R
9T	42 Y/O	43 Y/G	9T
9R	17 O/Y	18 G/Y	9R
10T	44 Y/BN	45 Y/S	10T
10R	19 BN/Y	20 S/Y	10R
11T	46 V/BL	47 V/O	11T
11R	21 BL/V	22 O/V	11R
12T	48 V/G	49 V/BN	12T
12R	23 G/V	24 BN/V	12R
		50 V/S	T
		25 S/V	R

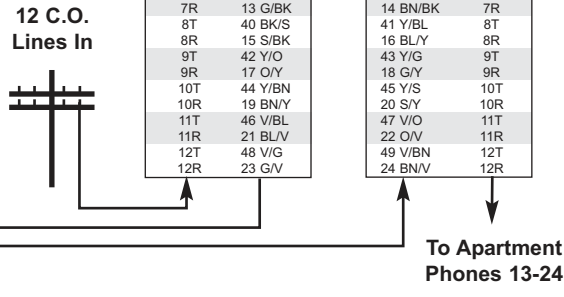
Example: Type 66 Punchdown Terminal Block with Split Center (not included)



**Important:** Interconnect all modules coming OUT of the last slave module IN to the next, continuing from module to module on up to the Master module. After wiring is complete, power up the last slave module first, continuing forward to the master module.



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1T	26 W/BL	27 W/O	1T
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2T	28 W/G	29 W/BN	2T
2R	3 G/W	4 BN/W	2R
3T	30 W/S	31 R/BL	3T
3R	5 S/W	6 BL/R	3R
4T	32 R/O	33 R/G	4T
4R	7 O/R	8 G/R	4R
5T	34 R/BN	35 R/S	5T
5R	9 BN/R	10 S/R	5R
6T	36 BK/BL	37 BK/O	6T
6R	11 BL/BK	12 O/BK	6R
7T	38 BK/G	39 BK/BN	7T
7R	13 G/BK	14 BN/BK	7R
8T	40 BK/S	41 Y/BL	8T
8R	15 S/BK	16 BL/Y	8R
9T	42 Y/O	43 Y/G	9T
9R	17 O/Y	18 G/Y	9R
10T	44 Y/BN	45 Y/S	10T
10R	19 BN/Y	20 S/Y	10R
11T	46 V/BL	47 V/O	11T
11R	21 BL/V	22 O/V	11R
12T	48 V/G	49 V/BN	12T
12R	23 G/V	24 BN/V	12R



Product Support Line...715.386.8666

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