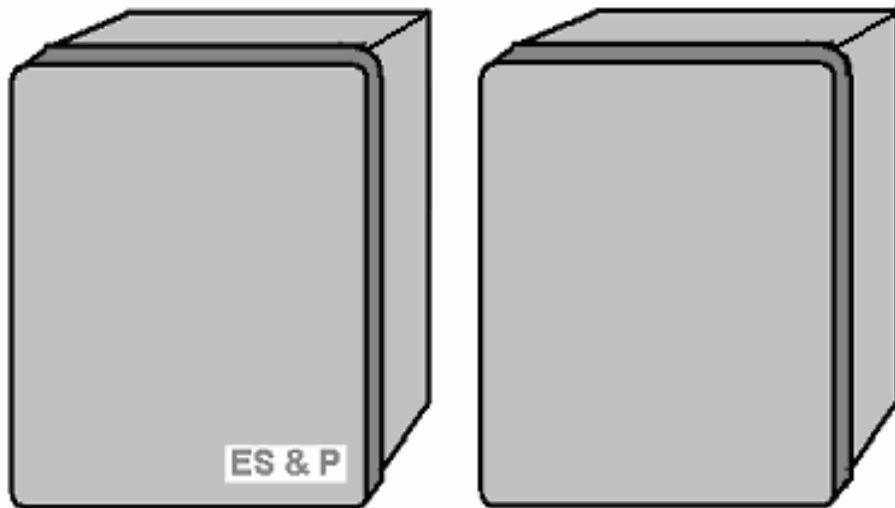# DOORGUARD 5000 NPL SYSTEM

SHORT FORM INSTALLATION MANUAL

ES&P Ventures Corp.

Engineering
Services &
Products

SYSTEM BENEFITS AND FEATURES

- No Monthly Rental of Telephone line for Building Management

- Residents do not need phone company service. Connect phone to jack to receive intercom calls.

- Management does not require collection and entry of resident phone numbers

- No system re-programming when a resident moves in or out

- No need to decide which phone to dial (husband, wife, children) in case of multiple resident phones in a suite

- Access can only be granted from inside residence for enhanced security

- Call waiting with distinctive Double Tone

- Distinctive Double Ring differentiates incoming calls from visitor calls

- Dialing to Off-Premise Telephones (or Cell Phones)

- Connection to Concierge (or Guard) phone

- Built-in DSL Internet Filter

- Can be used as a No-Phone-Line system with any manufacturer's Autodialer

- Only 2 wire connection to lobby equipment

- Capacity for up to 1536 Residents

- Authentic Call Progress Tones (Ring back, Dial Tone, etc)

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APPENDICES

1.0 PREPARATION

Arrangements must be made for installation of CA71A / RJ71C or equivalent telephone jacks.

One16 Volt / 40 VA CSA approved Class 2 transformer is required to power the telephone room equipment.

A ready-made wiring harness is provided to replace the 10-wire interconnection between cabinets in the telephone room. For longer distances, such as wiring between buildings, an additional terminal block is provided.

2.0 SPECIAL FEATURES

They are:

2.1 Guard Phone

The Guard phone requires a standard tone type (DTMF) telephone. This phone is connected directly to the control unit (5000MC) via 2 conductors.

In order to communicate with a tenant, the guard must enter the four digit relay number. He must wait for the dial tone before entering the relay number. If the system is busy (lobby in use), the guard will not receive a dial tone.

To dial off-premises, dial digit 9 first, wait for dial tone, then dial the desired phone number.

Conversation from the guard phone is limited to 100 seconds.

2.2 Call Waiting:

The call waiting feature provides the tenant with a double tone if they are busy with an outside call.

The tenant may place the outside call on hold, by depressing the hook switch (or dialing digit 3), to establish communication with the visitor.

To permit access, the tenant can dial 9 then depress the hook switch to return to the on-hold outside call.

OR

To deny access and be re-connected with the outside call, the tenant simply depresses the hook switch again (or dials digit 3).

3.0 INSTALLATION:

Refer to system wiring diagram (appendix B).

3.1 Telephone Room Equipment:

NOTE: For small (one-cabinet model) some of the following connections do not apply.

Mount the Main Control Cabinet (5000MC) and Auxiliary Relay Cabinet (5000AC) close to the RJ71/CA71 telephone jacks.

If cabinets are mounted adjacent to each other, wire connections can be eliminated by using the supplied cable. Use this cable to connect the Main Controller cabinet to the relay cabinets, as follows:
- Connect one end of the cable to JP1 on 5000MC (red wire to the right side) and the other end to J9 on 5000AC (red wire to the left)
- If more relay cabinets are used, connect the cable from J10 of the first cabinet to J9 of the next cabinet (red wire to the left in both)
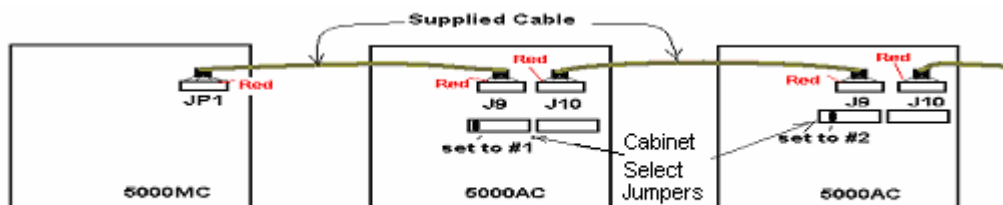
Insert the Relay cards into proper locations. Set the Relay Cabinet Select jumper (located at the top right corner of each relay cabinet). For Relay Cabinet #1 set the jumper to location 1, for cabinet #2 set to location 2, etc.
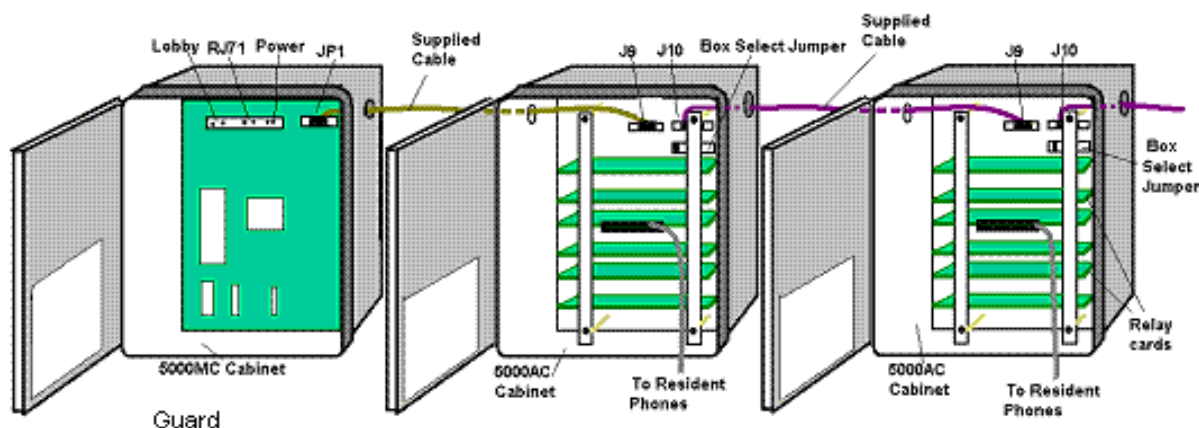
Now, make connections from main control cabinet to lobby equipment, guard phone, etc as shown on the wiring diagram. Then, connect the system relays to the phone jacks using the necessary cables.

Ensure the system is properly Grounded.

Finally, connect the 16VAC transformer to the main control cabinet. The Red power indicator LEDs will be illuminated on all cabinets.

It is recommended to test the system prior to connecting it to the lobby equipment. To do this, connect a standard tone phone to the guard or lobby terminals. Then, dial the four-digit Relay Number. The proper relay card indicator will light up and you will establish communication.

APPENDIX A
REGULATORY APPROVALS

<u>IMPORTANT NOTICE</u>

- The following information is provided to the installation contractor for compliance with Industry Canada standards.

<u>NOTICE:</u> The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational and safety requirements. The department does not guarantee that the equipment will operate to the users satisfaction.

Before installing this equipment, users should ensure that it is permissable to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

<u>CAUTION:</u> Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to be connected to a telephone loop which is used by the device, to prevent overloading. The termination on a loop may consist of any combination of devices subject only to the requirement that the sum of the Load Numbers of all devices does not exceed 100.

The Load Number for this Equipment is 4.0
Industry Canada Certification No.: 1949 5630 A

<u>SYSTEM WARRANTY</u>

Equipment manufactured by ES&P is warranted to be free of defects in material and workmanship for a period of one (1) year from the original shipment date. ES&P will, at its option, repair or replace any equipment which it determines to be defective in material or workmanship. Equipment thought to be defective is to be shipped freight prepaid to ES&P; ES&P will prepay return freight. ES&P shall not be responsible to repair or replace equipment which has been abused, incorrectly installed, repaired by others, altered or otherwise misused or damaged in any way. Unless previously contracted by ES&P, ES&P will not assume responsibility for determining the defective or operative status at the point of installation, and will not assume liability beyond the repair or replacement of the product at our factory or authorized service centre.

INSTRUCTION TO THE U.S. USER /
FCC REQUIRED INFORMATION

FCC REGULATIONS

This device has been granted a registration number by the FCC, under part 68 rules and regulations governing devices that directly connect to the telephone lines. This equipment complies with Part 68 of the FCC rules. A label on the controller housing of the DoorGuard 5000 contains, among other information, the FCC Registration Number and Ringer Equivalence Number (REN) for this equipment. You must, upon request, provide this information to your telephone company.

The REN is useful to determine the quantity of devices that you may connect to your telephone line and still have those entire devices ring when your telephone number is called. In most, but not all areas, the sum of the REN's of all devices connected to one line should not exceed five (5.0). To be certain of the number of devices that you may connect to your line, you may want to contact your telephone company to determine the maximum REN for your calling area.

This equipment is designed to be connected to the telephone network or premises wiring using an RJ-71C jack which is FCC Part 68 compliant.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subject to state tariffs.

Should the DoorGuard 5000 cause harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advanced notice is not practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC. The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

This equipment contains no user serviceable parts. If you experience trouble with this equipment, please contact:

E S & P Ventures Corporation
1 Bradwick Drive, Unit 8
Concord, Ontario, Canada L4K 2T4
Tel. (905) 738-6855   Fax. (905) 738-8116

for information to obtain service or repairs. The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure the equipment is not malfunctioning.

5000MC MAIN CONTROLLER

TO NEXT 5000AC

SUPPLIED CABLE

RED J10

RED J9

5000AC RELAY CABINET

EARTH
RING — RES CO
TIP — RES CO
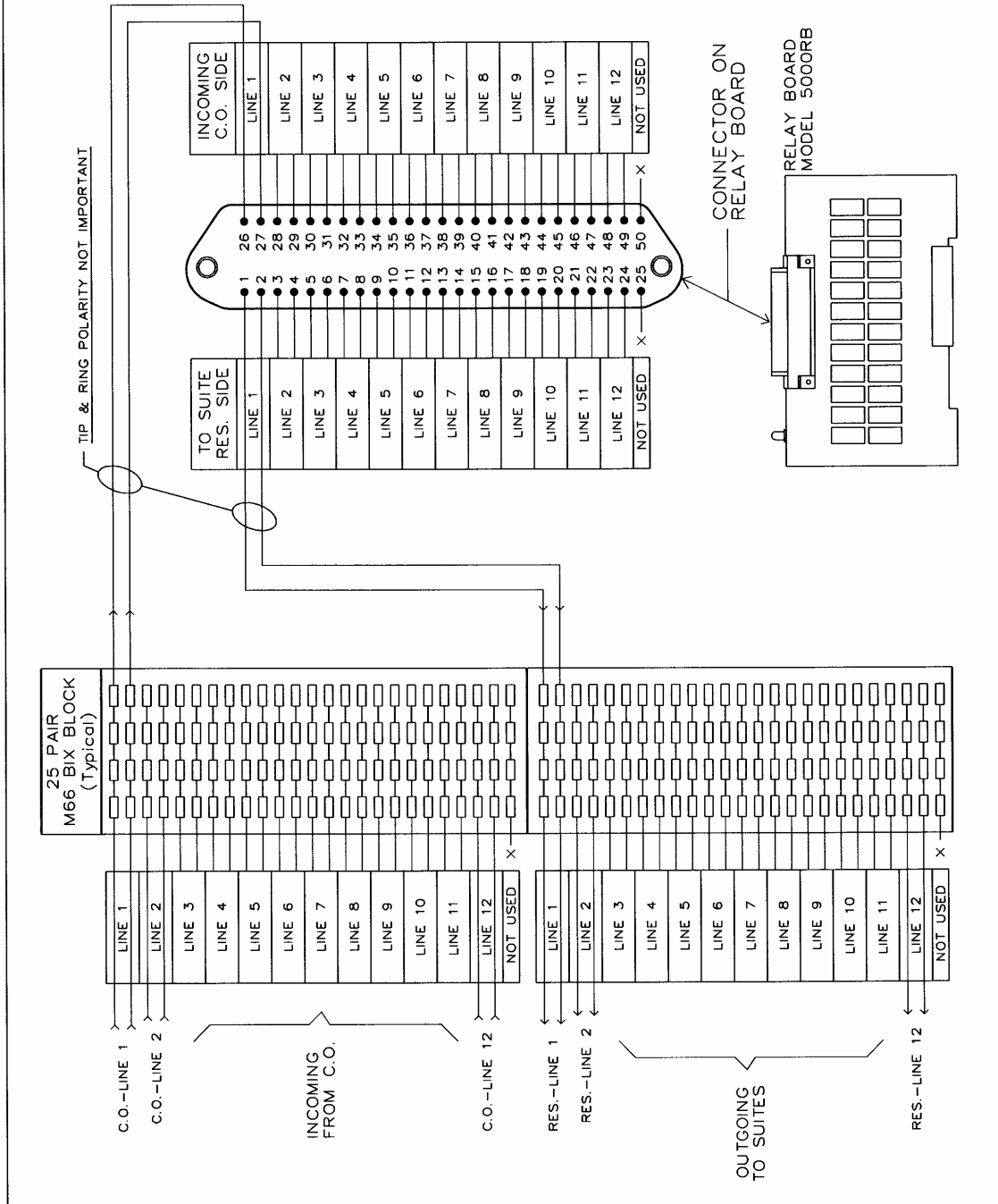DATA
CLOCK
LATCH
22VDC [+ −]

TO NEXT 5000AC

SUPPLIED CABLE

10 WIRES #22AWG UP TO 1000 FEET
OPTIONAL, SEE NOTE 3

2 x #22 AWG MAX. 1000 FT. POLARITY NOT IMPORTANT

RED JP1

22VDC [+ −]
LATCH
CLOCK
DATA
TIP — RES CO
RING — RES CO
EARTH

2x #18 AWG
16VAC/40VA TRANSFORMER UL/CSA APPROVED TYPE 2 ONLY

OPTIONAL TEL LINE FOR OFF-PREMISES DIALING.
OBSERVE POLARITY.
R (−)
T (+)

OPTIONAL GUARD TELEPHONE DTMF (TONE) ONLY

MUSIC [M C]

16VAC

120 VAC

2 x #22 AWG UP TO 1000 FEET

CMN
16 VAC — ME
LINE — OUTSIDE R T
GUARD R T
LOBBY R T
EARTH

#18 AWG MIN.
CONNECT TO BUILDING GROUND

LOBBY ENTRY SYSTEM (Typical)

120 VAC
120 VAC SEE NOTE 1
16VAC
16VAC
DOOR STRIKE
18AWG
18AWG
CONNECT DOOR STRIKE TO D.C. OR A.C. OUTPUTS MAXIMUM OUTPUT IS 28V, 3AMP
18AWG

SYSTEM POWER — T1, T2
16 VAC 20VA
DOOR STRIKE — T3, T4
TRANSFORMER
DC (SILENT) + — D1
DOOR STRIKE − — D2
AC (BUZZING) — D3
DOOR STRIKE — D4

AUXILIARY RELAY — NO
MOMENTARY CONTACT — C
— NC
POSTAL LOCK — PL
DOOR TIMER CUTOFF — TC
COMMON — G
FIRE ALARM INPUT — FA
MULTIPLE ENTRANCE — ME

TO SYSTEM — R
CONTROLLER — T

POSTAL LOCK N.O. SWITCH
N.O. SWITCH
FIRE ALARM N.O. CONTACT
SEE NOTE 2

NOTES:
1. TRANSFORMER MUST BE COMPATIBLE WITH DOOR STRIKE.
2. FOR MULTIPLE ENTRANCES, CONNECT TERMINAL G TO G AND ME TO ME OF NEXT ENTRY SYSTEM.
3. USE SUPPLIED CABLE TO INTERCONNECT CABINETS AS SHOWN. FOR LONGER DISTANCES CONNECT WIRING TO TERMINAL BLOCKS. DO NOT USE BOTH.

WIRING DIAGRAM
DOORGUARD® 5000 ENTRY SYSTEM

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DoorGuard 5000

Appendix C

WIRING DIAGRAM (RJ-71C/CA-71A)

<u>Reprogram any Autodialer to NPL Entry</u>.

<u>Upgrade of any installed Autodialer (by any manufacturer) to NPL</u>: With our concept, it is possible to convert any installed Autodialer to NPL. To our knowledge, we are the only manufacturer in the market to truly achieve this without interface modules and/or additional programming instructions for the Telephone Room equipment. All that is required is to install the telephone room equipment and connect the Autodialer (which is connected to the CO) to the Model 5000MC, as well as program the Resident Relay Number instead of the resident Telephone number.

Replace the 7 digit Telephone Number as follows:

5 CODEXX   (CODE = Relay Code, XX = DON'T CARE)

Example:

<u>Relay #</u>	<u>Reprogram Phone #</u>
0000	5 0000 00
0001	5 0001 00
0002	5 0002 00
0010	5 0010 00
0011	5 0011 00
0100	5 0100 00
0101	5 0101 00

<u>Note:</u>

For Autodialers capable of 4 digit Telephone Number entry, simply replace the Telephone Number with the 4 digit Relay Number (Some Autodialers force you for minimum 7 digits as well as not having '0' as the first).

USER OPERATING INSTRUCTIONS

A DoorGuard Entry System has been installed in your building to provide increased security for yourself and your family. The system provides communication and entry control using your telephone.

Your visitor simply enters your code number from the directory to ring your suite. You can answer from any telephone.

A call from the lobby can be identified by its distinctive double-ring.

To permit access, dial the digit 9.

To deny access, simply hang-up.

Built-in Call Waiting Feature

A double tone will be heard if a visitor is trying to reach you while you are engaged in a conversation with the outside.

To place the outside call on hold, depress the hook switch. This will establish conversation with your visitor.

To permit access, dial 9 then depress the hook switch again to return to the original conversation.

To deny access, simply depress the hook switch again. Do not dial 9.