

AC-2-W

TWO DOOR ACCESS CONTROL SYSTEM



Programming and Installation Guide

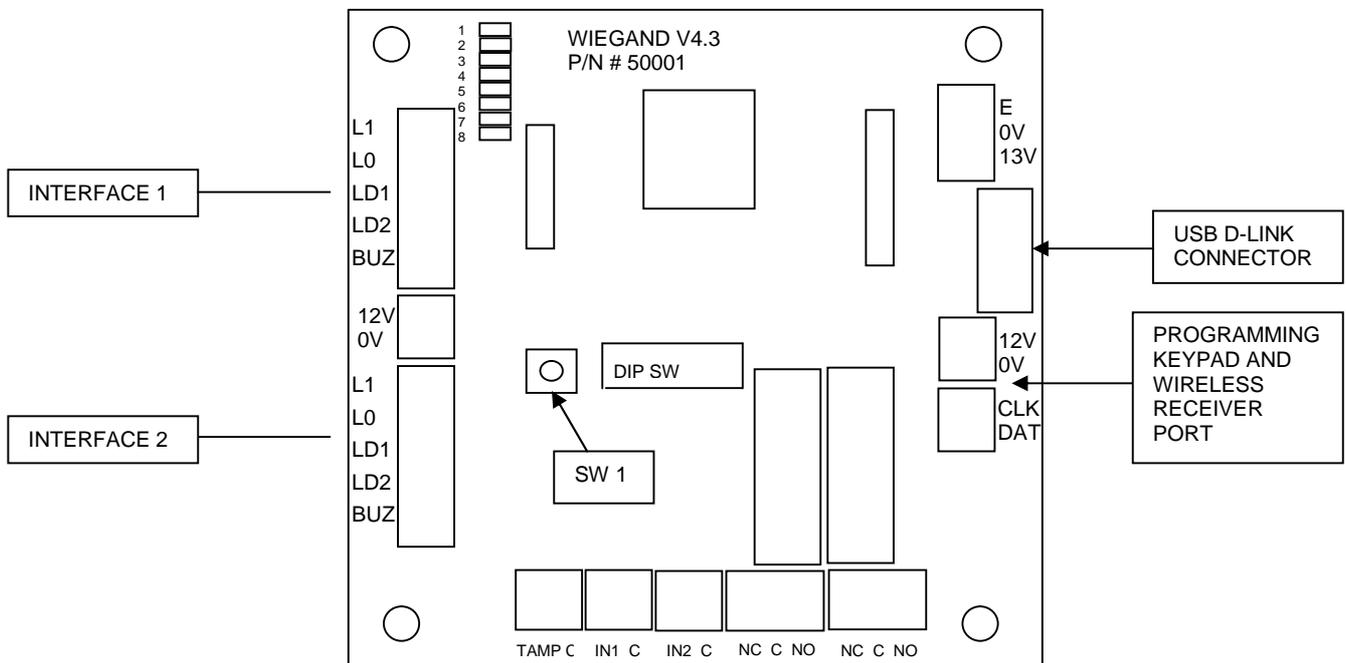
AC-2-W Programming & Operating Instructions

The AC-2-W is designed as a 500 User 2-door standalone access control system with a relay for each door and a REX (request to exit) input for each door.

The PW WIEGAND, CPT-DH16A-12DT-W and the PW-READER-AAPNZ Proximity Reader keypads can be used for programming and operation but the AC-2-W will also support an ICON LCD programming keypad. The ICON LCD programming keypad cannot be used for normal operation. It is only used for programming. If an ICON LCD-P (built-in prox reader) keypad is used for programming the keypad prox reader can be used to load access tags (P2E) or find access tags in memory (P30E).

An RX-16 MF349 receiver can also be connected to the system so that radio keys can be loaded as users to operate the relays.

When using the PW WIEGAND, CPT-DH16A-12DT-W and the PW-READER-AAP keypad for programming some of the program addresses are not available but if using the ICON LCD programmer all addresses can be used.



The AC-2-W can be connected to a PC using the AC-2 back-up software. The back-up software allows the programmed database to be uploaded to the PC and saved. The saved file can be downloaded to an AC-2-W at a later date to re-instate the operating configuration. To connect the AC-2-W board to a PC for database backup or restore you will need a USB D-LINK lead.

The AC-2-W MUST be in Program mode for data transfer from or to a PC using the AC-2 PC software. Also ALL access control activity is halted when in Program Mode. All access control features will resume on exiting of Program Mode.

LED 8 will flash at a 1 second rate to indicate that the board is powered and running.
If the unit is in program mode LED's 7 & 8 will flash in unison at a fast rate.

The Request to Exit (REX) inputs (IN1 & IN2) are normally open inputs. When a short circuit is applied to either of these inputs the REX function is active. When a REX input is shorted out the associated relay will remain on until the REX input is open again at which time the relay reset time will apply. If REX input 1 is shorted (active) LED 1 will be ON, if REX input 2 is shorted (active) LED 2 will be ON.

If DIP switch 1 is OFF, interfaces 1 & 2 support the following reader/keypads;

**PW WIEGAND,
CPT-DH16A-12DT-W,
CPT-DH16A-10T-W**

If DIP switch 1 is ON, interfaces 1 & 2 support the following reader/keypad;

PW-READER-AAPNZ

NOTE: the board must be powered down when changing DIP Switch 1 as the switch is only read at power-up.

The chart below shows the wiring for each of the keypad/reader types.

AC-2 Interface 1 & 2 wiring Connections	CPT-DH16A 12DT/10T-W	PW WIEGAND	PW READER AAPNZ
L1	BLACK/WHITE	WHITE	CLK- WHITE
L0	BROWN/WHITE	GREEN	DAT- GREEN
LD1	ORANGE	BROWN	-
LD2	YELLOW	BLUE	-
BUZ	BROWN	YELLOW	-
12V	RED	RED	12V- RED
0V	BLACK (GREEN)	BLACK	0V- BLACK

The AC-2-W MUST be in Program mode for data transfer from or to a PC using the AC-2 PC software. Also ALL access control activity is halted when in Program Mode. All access control features will resume on exiting of Program Mode.

PROGRAM SUMMARY

Using one of the reader/keypad units for programming (# = P and * = E).
ICON LCD keypad for programming (PROG = P and ENTER = E).

P1E1-500E Add/Delete 1-6 Digit Code

P2E1-500E Add/Delete Access Tag, or Radio Key

P3E1-500E Assigned Doors (1 On=RL1, 2 On=RL2) (Default = 1 On for all users)

A total of 500 access users can be programmed. The system checks for duplicate entries and prevents this from happening. A user slot can contain a PIN code (Programmed at P1E) as well as an access tag code or a radio key code (Programmed at P2E).

P9E 4 Digit Master Code (Default = None)

P10E 4 Digit Installer Code (Default =0000)

P11E 0-255 Door Open Time for RL1 in secs (0 = Toggle) (Default = 10 sec)

P12E 0-255 Door Open Time for RL2 in secs (0 = Toggle) (Default = 10 sec)

P17E 0 or 1 0 = RL1 normal (failsecure), 1 = RL1 inverted (failsafe) (Default = 0)

P18E 0 or 1 0 = RL2 normal (failsecure), 1 = RL2 inverted (failsafe) (Default = 0)

***P21E 1 = Assign Reader Interface 1 to RL1 (Default = 1, 2 ON)
2 = Assign Reader Interface 2 to RL1***

***P22E 1 = Assign Reader Interface 1 to RL2 (Default = 1 ON)
2 = Assign Reader Interface 2 to RL2***

***P23E 0 = Code Only Mode (Default = 2)
1 = Access Tag/Radio Key Only Mode
2 = Code OR Access Tag/Radio Key Mode
3 = Code AND Access Tag/Radio Key Mode
(Above options are global to all users)***

P30E Find a code or access tag/radio key user slot

P100E100E Default the complete system to factory defaults

(All of the above addresses can be used with the ICON LCD programmer. Program options shown above in bold Italics are available when using the PW-READER-AAPNZ, PW WIEGAND, CPT-DH16A-12DT-W, CPT-DH16A-10T-W for programming. The find function P30E cannot be used from these reader/keypads).

All of the program locations above require the AC-2-W to be in program mode first.

SYSTEM OPERATION

Getting into Program Mode

You MUST be in program mode before any of the program addresses will be accepted. To get into program mode using the installer code on the PW-READER-AAPNZ, PW WIEGAND, CPT-DH16A-12DT-W or CPT-DH16A-10T-W keypad press;

- 0000 - *. (0000 = Default Installer Code)

The LED on the keypad and LED's 7 & 8 on the AC-2-W board will flash.

To get into program mode using the installer code on the ICON LCD keypad press;

PROG-0000-ENTER (0000 = Default Master Code)

The ICON LCD display will show "**IPGM**" on the display and LED's 7 & 8 on the AC-2-W board will flash.

If a master code has been programmed (P9E), that code can be used instead of the installer code as shown above. When access to program mode is obtained via the master code the master user cannot access the installer code address (P10E). If access was obtained via the installer code then all addresses can be accessed including the master code (P9E).

To get into program mode using the master code on the ICON LCD keypad press;

PROG-XXXX-ENTER (where XXXX = the programmed master code)

The ICON LCD display will show "**MPGM**" on the display and LED's 7 & 8 on the AC-2-W board will flash.

If the installer code or master code are unknown, power up the AC-2-W board while holding down SW1 for 5 seconds which will automatically put it into program mode and default the installer and master codes leaving all other data untouched.

If program mode is accessed via on the PW-READER-AAPNZ, PW WIEGAND, CPT-DH16A-12DT-W or CPT-DH16A-10T-W and the ICON LCD keypad is fitted the display on the ICON LCD will show "**INPG**" indicating that program mode was accessed from the interface reader/keypad.

Exiting Program Mode

All access control activity is halted when the AC-2-W is in program mode. Once programming is finished you MUST exit program mode before normal operation will resume. To exit program mode from the PW-READER-AAPNZ, PW WIEGAND, CPT-DH16A-12DT-W or CPT-DH16A-10T-W press;

- *.

The LED on the keypad and LED 7 on the AC-2-W board will stop flashing.

To exit program mode using the ICON LCD keypad press;

PROG - ENTER

The ICON LCD display will show "AC2" on the display and LED 7 on the AC-2-W board will stop flashing.

Programming User Codes, Access Tags or Radio Keys

There are 500 access users that can be programmed. They can be a code from 1-6 digits in length or an access tag or a radio key.

Programming User Codes

To add a code using the PW-READER-AAPNZ, PW WIEGAND, CPT-DH16A-12DT-W or CPT-DH16A-10T-W keypad (while in program mode) Press;

1 * 1 * <new code> * (User Code 1)

The Keypad LED will stop flashing during this process and return to flashing when the last * is pressed. If the code is accepted the keypad will give 3 shorts beeps.

If the code already exists in memory the unit will give 1 long beep (error beep). If the code does exist you need to enter in a different code.

When using the ICON LCD keypad for programming the display will show the user code digits being programmed in the text display area

For example to program user codes with the ICON LCD press;

PROG 1 ENTER 1 ENTER <new code> ENTER (User Code 1).

If the new code was 1 2 3 4 these numbers will flash out sequentially on the text display area of the ICON LCD. Entering in a user code address where a code is already programmed will cause that code to be sequentially flashed out on the text display area.

If the code already exists in memory the unit will give 1 long beep (error beep) and the display will show "USED". If the code does exist you either need to remove the duplicate code or enter a different code. To find the duplicate code enter;

PROG 30 ENTER <your new code> ENTER

The ICON LCD display will show the existing user number eg "U450". To remove the existing duplicate code (eg if it was user 450) press;

PROG 1 ENTER 450 ENTER 0 ENTER (Entering in a 0 will remove the code).

Programming Access Tags or Radio Keys

Users can also be a radio key or an access tag.

To add a radio key or access tag using the PW-READER-AAPNZ, PW WIEGAND, CPT-DH16A-12DT-W or CPT-DH16A-10T-W keypad (while in program mode) Press;

2 * 1 * (Radio key or Access Tag 1).

The keypad buzzer will start beeping at 1 second intervals and if connected, the LED on the receiver will start to flash at the same rate to indicate learn mode has been started. Learn mode will run for 30 seconds. The Keypad LED will be off during this process and return to flashing when the learn process has stopped.

Operate the radio key you wish to learn or present the access tag to the PW-READER-AAPNZ, PW WIEGAND, CPT-DH16A-12DT-W or CPT-DH16A-10T-W keypad within 30 seconds. When a radio key or access tag code is received by the AC-2-W the system will stop learn mode (indicated by the keypad buzzer becoming silent and the LED on the receiver turning off).

If the radio key or access tag code was accepted the keypad will give 3 short beeps (OK beep). If the radio key or access tag code already exists in memory the unit will give 1 long beep (error beep). If the radio key or access tag already exists in memory follow the instructions above for duplicate user codes.

Deleting an User code, Access Tag or Radio Key

To delete a code or radio key/access tag simply enter in the program location eg P1E1E (for user code 1) and then press 0E to delete the code. The same will remove a radio key or access tag eg P2E1E (for radio key/access tag 1) then press 0E. Single digit user codes

cannot be a 0 (zero) as it is used to delete codes. However if 00 was entered as a code, this would be accepted, as only a single 0 is not valid.

Assigning Users to Doors

To program or change the door assignment of a user from the PW-READER-AAPNZ, PW WIEGAND, CPT-DH16A-12DT-W or CPT-DH16A-10T-W keypad press;

3 * 1 * (for user 1)

Then pressing 1 will toggle door 1 on/off and pressing 2 will toggle door 2 on/off.

The PW-READER-AAP has a bi-colour LED that can be off, green, red, or orange (when both red & green are on). If the LED is orange after you enter in the above address that shows the user is assigned to both doors 1 & 2, If it is red it shows the user is assigned to door 1 only, if green it shows the user is assigned to door 2 only and if the LED is off the user is not assigned to any doors. The PW WIEGAND has separate red and green LED's but they share the same display area so this keypad will work the same as the PW-READER-AAPNZ, eg the colour will be red, green or orange. The CPT-DH16A-12DT-W & CPT-DH16A-10T-W readers have two totally separate LED's so the RED LED indicates door 1 is selected and the GREEN LED indicates door 2 is selected.

To program or change the door assignment of a user from the ICON LCD keypad press;

PROG 3 ENTER 1 ENTER (for user 1)

Then pressing 1 will toggle 1 on/off and pressing 2 will toggle 2 on/off.

If the numbers 1 & 2 are shown on the LCD display when at this location it shows that the user can operate both doors.

Programming Installer & Master Codes

Programming the master and installer codes (P9E & P10E) using the PW-READER-AAPNZ, PW WIEGAND, CPT-DH16A-12DT-W or CPT-DH16A-10T-W Keypad or the ICON LCD keypad is done in the same way user codes are programmed. The only difference is the master and installer codes must be 4 digits long whereas user codes can be 1-6 digits long.

If access to program mode was obtained by using the master code (P9E) the programmer cannot access the installer code address (P10E). This stops the owner from being able to change or view the installer code.

Programming the Master Code

To program the Master code using the PW-READER-AAPNZ, PW WIEGAND, CPT-DH16A-12DT-W or CPT-DH16A-10T-W keypad (while in program mode) Press;

9 * <new 4 digit master code> *. (Master Code)

The Keypad LED will stop flashing during this process and return to flashing when the last * is pressed.

If the code is accepted the keypad will give 3 shorts beeps.

If there is an error the unit will give 1 long beep (error beep).

When using the ICON LCD keypad for programming the display will show the Master Code digits being programmed on the bottom line of the display.

For example to program the master code with the ICON LCD press;

PROG 9 ENTER <new 4 digit master code> ENTER (Master Code).

If the new master code was 2 5 8 0 these numbers will appear on the bottom line of the LCD display as they are entered.

Deleting the Master Code

Entering in a value of 0 (zero) will delete the master code, eg press;

9 * 0 * or,

PROG 9 ENTER 0 ENTER (ICON LCD keypad)

Programming the Installer Code

To program the Installer code using the PW-READER-AAPNZ, PW WIEGAND, CPT-DH16A-12DT-W or CPT-DH16A-10T-W keypad (while in program mode) Press;

10 * <new 4 digit installer code> *. (Installer Code)

The Keypad LED will stop flashing during this process and return to flashing when the last * is pressed.

If the code is accepted the keypad will give 3 shorts beeps.

If there is an error the unit will give 1 long beep (error beep).

When using the ICON LCD keypad for programming the display will show the Installer Code digits being programmed in the text display area.

For example to program the installer code using the ICON LCD KP press;

PROG 10 ENTER <new 4 digit installer code> ENTER (Installer Code).

You cannot delete the Installer Code.

Programming Door Release Times

The release times for doors 1 & 2 can be programmed separately. If a value of 0 is programmed the door will toggle on each successful operation by a user but if a value from 1 –255 is programmed, the value entered will be the reset time in seconds.

To program the door release times from the PW-READER-AAPNZ, PW WIEGAND, CPT-DH16A-12DT-W or CPT-DH16A-10T-W press either;

11 * 0-255 * (for Door 1) or,

12 * 0-255 * (for Door 2)

To program the door release times from the ICON LCD press either;

PROG 11 ENTER 0-255 ENTER (for Door 1) or,

PROG 12 ENTER 0-255 ENTER (for Door 2)

Programming Default Door Relay State

The operation of RL1 & RL2 can be set to normal (relay energises when operated by a user) or inverted (relay is energised normally and is powered off when operated by a user). The normal mode is called “Fail-Secure” because if the unit fails or power is removed the door will remain locked. The inverted mode is called “Fail-Safe” because if the unit fails or power is removed the door will unlock.

To program the desired operation for RL1 enter;

17 * or,

PROG 17 ENTER

Then 0 * or 0-ENTER for normal or 1 * or 1-ENTER for inverted.

To program the desired operation for RL2 enter;

18 * or,

P18E

Then 0 * or 0-ENTER for normal or 1 * or 1-ENTER for inverted.

Assigning a Reader Interface to a Door

The two reader interface ports can be assigned to doors 1 or 2 or both (RL1 or RL2).

To assign a reader interface to door 1 (RL1) press;

21 * or,

PROG 21 ENTER.

At this point you can turn on numbers 1 or 2 by pressing the associated numeric buttons on the keypad. If the number 1 or 2 is shown on the ICON LCD display that shows that the selected reader interface is assigned to door 1.

To do the same for door 2 (RL2) press;

21 * or,

PROG 22 ENTER.

Pressing 1 will toggle reader interface 1 on/off and pressing 2 will toggle reader interface 2 on/off.

The PW-READER-AAP has a bi-colour LED that can be off, green, red, or orange (when both red & green are on). If the LED is orange after you enter in the above address that shows keypad interfaces 1 & 2 are both assigned to the relay. If it is red it shows that keypad interface 1 is assigned to door 1 (RL1) only, if green it shows that keypad interface 2 is assigned to door 2 (RL2) only and if the LED is off neither keypad interface is assigned to any doors. The PW WIEGAND has separate red and green LED's but they share the same display area so this keypad will work the same as the PW-READER-AAPNZ, eg the colour will be red, green or orange. The CPT-DH16A-12DT-W & CPT-DH16A-10T-W readers have two totally separate LED's so the RED LED indicates door 1 (RL1) is selected and the GREEN LED indicates door 2 (RL2) is selected.

Programming User Access Mode

The system can be programmed to accept codes only, radio key/access tags only, code OR radio key/access tag or code AND a radio key/access tag.

To program the User Access Mode press;

23 * or;

PROG 23 ENTER

When P23E is set to 0 the unit will only respond to codes.

When P23E is set to 1 the unit will only respond to radio key/access tags.

When P23E is set to 2 the unit will respond to a code OR radio key/access tags.

When P23E is set to 3 the unit will require entry of a valid code AND followed by the associated radio key/access tag.

Mode 3 is typically used to provide PROX/PIN functionality. For example if user code 10 was entered at the PW-READER-AAPNZ, PW WIEGAND, CPT-DH16A-12DT-W or CPT-DH16A-10T-W keypad the unit will look for access tag 10 to be used within 15 seconds before releasing the door. During the 15-second period the reader LED will flash to indicate that an access tag must now be presented. This mode is more secure because it requires the User to know the code plus have the associated access tag before entry can be obtained. Alternatively, after entering the user code number the system can check for an associated radio key instead of an access tag and only allow entry if the associated radio key (eg radio key 10 and user code 10) is used within 15 seconds of entering the code but it is more likely that an access tag will be used for mode 3 operation.

Finding a User Code, Radio Key or Access Tag

The find function is ONLY available with the ICON LCD programmer.

If there are many codes and/or radio keys or access tags in use it can sometimes be useful to find their memory location.

To do this press;

PROG 30 ENTER

The keypad will beep at 1 second intervals and the LED on any receivers will flash.

To find a user code number, enter the user code at the ICON LCD programming keypad.

To find an access tag number, present the tag to a proximity reader.

To find a radio key number, operate the radio key.

The system will then search its memory for a matching user number and display that user number on the LCD keypad.

If no match exists the LCD will display 'NONE' but if the user exists in the system it will show the user number, eg a user tag programmed at address 450 would display "U450".

Defaulting the system

While in program mode press;

100 * 100 * or,

PROG 100 ENTER 100 ENTER.

You must enter 100 * twice as that eliminates the chance of accidentally defaulting the system. All user data will be lost.

If you don't know the installer or master codes and cannot get into program mode you can power up the PCB while holding down SW1 for 5 seconds. This will reset the master and installer codes back to the default settings and put the unit into program mode but will not delete the stored user data.

HARDWARE CONFIGURATION

IN1 is to be used as the Request to Exit button for door 1 (RL1)

IN2 is to be used as the Request to Exit button for door 2 (RL2)

RL1 will operate the door 1 lock.

RL2 will operate the door 2 lock.

The IN1 & IN2 inputs require a normally open switch to the GND terminal. When the switch is closed (shorting IN1 or IN2 to GND) the door will open. If the IN1 or IN2 inputs are left in the shorted position the door will remain open until the switch is released. When the switch is released the door release timer will then operate (P11E or P12E) then when the time expires the door/s will re-lock.

User #	Code #	Doors	User Name	User #	Code #	Doors	User Name
1		1p 2p		51		1p 2p	
2		1p 2p		52		1p 2p	
3		1p 2p		53		1p 2p	
4		1p 2p		54		1p 2p	
5		1p 2p		55		1p 2p	
6		1p 2p		56		1p 2p	
7		1p 2p		57		1p 2p	
8		1p 2p		58		1p 2p	
9		1p 2p		59		1p 2p	
10		1p 2p		60		1p 2p	
11		1p 2p		61		1p 2p	
12		1p 2p		62		1p 2p	
13		1p 2p		63		1p 2p	
14		1p 2p		64		1p 2p	
15		1p 2p		65		1p 2p	
16		1p 2p		66		1p 2p	
17		1p 2p		67		1p 2p	
18		1p 2p		68		1p 2p	
19		1p 2p		69		1p 2p	
20		1p 2p		70		1p 2p	
21		1p 2p		71		1p 2p	
22		1p 2p		72		1p 2p	
23		1p 2p		73		1p 2p	
24		1p 2p		74		1p 2p	
25		1p 2p		75		1p 2p	
26		1p 2p		76		1p 2p	
27		1p 2p		77		1p 2p	
28		1p 2p		78		1p 2p	
29		1p 2p		79		1p 2p	
30		1p 2p		80		1p 2p	
31		1p 2p		81		1p 2p	
32		1p 2p		82		1p 2p	
33		1p 2p		83		1p 2p	
34		1p 2p		84		1p 2p	
35		1p 2p		85		1p 2p	
36		1p 2p		86		1p 2p	
37		1p 2p		87		1p 2p	
38		1p 2p		88		1p 2p	
39		1p 2p		89		1p 2p	
40		1p 2p		90		1p 2p	
41		1p 2p		91		1p 2p	
42		1p 2p		92		1p 2p	
43		1p 2p		93		1p 2p	
44		1p 2p		94		1p 2p	
45		1p 2p		95		1p 2p	
46		1p 2p		96		1p 2p	
46		1p 2p		97		1p 2p	
48		1p 2p		98		1p 2p	
49		1p 2p		99		1p 2p	
50		1p 2p		100		1p 2p	

User #	Code #	Doors	User Name	User #	Code #	Doors	User Name
101		1p 2p		151		1p 2p	
102		1p 2p		152		1p 2p	
103		1p 2p		153		1p 2p	
104		1p 2p		154		1p 2p	
105		1p 2p		155		1p 2p	
106		1p 2p		156		1p 2p	
107		1p 2p		157		1p 2p	
108		1p 2p		158		1p 2p	
109		1p 2p		159		1p 2p	
110		1p 2p		160		1p 2p	
111		1p 2p		161		1p 2p	
112		1p 2p		162		1p 2p	
113		1p 2p		163		1p 2p	
114		1p 2p		164		1p 2p	
115		1p 2p		165		1p 2p	
116		1p 2p		166		1p 2p	
117		1p 2p		167		1p 2p	
118		1p 2p		168		1p 2p	
119		1p 2p		169		1p 2p	
120		1p 2p		170		1p 2p	
121		1p 2p		171		1p 2p	
122		1p 2p		172		1p 2p	
123		1p 2p		173		1p 2p	
124		1p 2p		174		1p 2p	
125		1p 2p		175		1p 2p	
126		1p 2p		176		1p 2p	
127		1p 2p		177		1p 2p	
128		1p 2p		178		1p 2p	
129		1p 2p		179		1p 2p	
130		1p 2p		180		1p 2p	
131		1p 2p		181		1p 2p	
132		1p 2p		182		1p 2p	
133		1p 2p		183		1p 2p	
134		1p 2p		184		1p 2p	
135		1p 2p		185		1p 2p	
136		1p 2p		186		1p 2p	
137		1p 2p		187		1p 2p	
138		1p 2p		188		1p 2p	
139		1p 2p		189		1p 2p	
140		1p 2p		190		1p 2p	
141		1p 2p		191		1p 2p	
142		1p 2p		192		1p 2p	
143		1p 2p		193		1p 2p	
144		1p 2p		194		1p 2p	
145		1p 2p		195		1p 2p	
146		1p 2p		196		1p 2p	
147		1p 2p		197		1p 2p	
148		1p 2p		198		1p 2p	
149		1p 2p		199		1p 2p	
150		1p 2p		200		1p 2p	

User #	Code #	Doors	User Name	User #	Code #	Doors	User Name
201		1p 2p		251		1p 2p	
202		1p 2p		252		1p 2p	
203		1p 2p		253		1p 2p	
204		1p 2p		254		1p 2p	
205		1p 2p		255		1p 2p	
206		1p 2p		256		1p 2p	
207		1p 2p		257		1p 2p	
208		1p 2p		258		1p 2p	
209		1p 2p		259		1p 2p	
210		1p 2p		260		1p 2p	
211		1p 2p		261		1p 2p	
212		1p 2p		262		1p 2p	
213		1p 2p		263		1p 2p	
214		1p 2p		264		1p 2p	
215		1p 2p		265		1p 2p	
216		1p 2p		266		1p 2p	
217		1p 2p		267		1p 2p	
218		1p 2p		268		1p 2p	
219		1p 2p		269		1p 2p	
220		1p 2p		270		1p 2p	
221		1p 2p		271		1p 2p	
222		1p 2p		272		1p 2p	
223		1p 2p		273		1p 2p	
224		1p 2p		274		1p 2p	
225		1p 2p		275		1p 2p	
226		1p 2p		276		1p 2p	
227		1p 2p		277		1p 2p	
228		1p 2p		278		1p 2p	
229		1p 2p		279		1p 2p	
230		1p 2p		280		1p 2p	
231		1p 2p		281		1p 2p	
232		1p 2p		282		1p 2p	
233		1p 2p		283		1p 2p	
234		1p 2p		284		1p 2p	
235		1p 2p		285		1p 2p	
236		1p 2p		286		1p 2p	
237		1p 2p		287		1p 2p	
238		1p 2p		288		1p 2p	
239		1p 2p		289		1p 2p	
240		1p 2p		290		1p 2p	
241		1p 2p		291		1p 2p	
242		1p 2p		292		1p 2p	
243		1p 2p		293		1p 2p	
244		1p 2p		294		1p 2p	
245		1p 2p		295		1p 2p	
246		1p 2p		296		1p 2p	
247		1p 2p		297		1p 2p	
248		1p 2p		298		1p 2p	
249		1p 2p		299		1p 2p	
250		1p 2p		300		1p 2p	

User #	Code #	Doors	User Name	User #	Code #	Doors	User Name
301		1p 2p		351		1p 2p	
302		1p 2p		352		1p 2p	
303		1p 2p		353		1p 2p	
304		1p 2p		354		1p 2p	
305		1p 2p		355		1p 2p	
306		1p 2p		356		1p 2p	
307		1p 2p		357		1p 2p	
308		1p 2p		358		1p 2p	
309		1p 2p		359		1p 2p	
310		1p 2p		360		1p 2p	
311		1p 2p		361		1p 2p	
312		1p 2p		362		1p 2p	
313		1p 2p		363		1p 2p	
314		1p 2p		364		1p 2p	
315		1p 2p		365		1p 2p	
316		1p 2p		366		1p 2p	
317		1p 2p		367		1p 2p	
318		1p 2p		368		1p 2p	
319		1p 2p		369		1p 2p	
320		1p 2p		370		1p 2p	
321		1p 2p		371		1p 2p	
322		1p 2p		372		1p 2p	
323		1p 2p		373		1p 2p	
324		1p 2p		374		1p 2p	
325		1p 2p		375		1p 2p	
326		1p 2p		376		1p 2p	
327		1p 2p		377		1p 2p	
328		1p 2p		378		1p 2p	
329		1p 2p		379		1p 2p	
330		1p 2p		380		1p 2p	
331		1p 2p		381		1p 2p	
332		1p 2p		382		1p 2p	
333		1p 2p		383		1p 2p	
334		1p 2p		384		1p 2p	
335		1p 2p		385		1p 2p	
336		1p 2p		386		1p 2p	
337		1p 2p		387		1p 2p	
338		1p 2p		388		1p 2p	
339		1p 2p		389		1p 2p	
340		1p 2p		390		1p 2p	
341		1p 2p		391		1p 2p	
342		1p 2p		392		1p 2p	
343		1p 2p		393		1p 2p	
344		1p 2p		394		1p 2p	
345		1p 2p		395		1p 2p	
346		1p 2p		396		1p 2p	
346		1p 2p		397		1p 2p	
348		1p 2p		398		1p 2p	
349		1p 2p		399		1p 2p	
350		1p 2p		400		1p 2p	

User #	Code #	Doors	User Name	User #	Code #	Doors	User Name
401		1p 2p		451		1p 2p	
402		1p 2p		452		1p 2p	
403		1p 2p		453		1p 2p	
404		1p 2p		454		1p 2p	
405		1p 2p		455		1p 2p	
406		1p 2p		456		1p 2p	
407		1p 2p		457		1p 2p	
408		1p 2p		458		1p 2p	
409		1p 2p		459		1p 2p	
410		1p 2p		460		1p 2p	
411		1p 2p		461		1p 2p	
412		1p 2p		462		1p 2p	
413		1p 2p		463		1p 2p	
414		1p 2p		464		1p 2p	
415		1p 2p		465		1p 2p	
416		1p 2p		466		1p 2p	
417		1p 2p		467		1p 2p	
418		1p 2p		468		1p 2p	
419		1p 2p		469		1p 2p	
420		1p 2p		470		1p 2p	
421		1p 2p		471		1p 2p	
422		1p 2p		472		1p 2p	
423		1p 2p		473		1p 2p	
424		1p 2p		474		1p 2p	
425		1p 2p		475		1p 2p	
426		1p 2p		476		1p 2p	
427		1p 2p		477		1p 2p	
428		1p 2p		478		1p 2p	
429		1p 2p		479		1p 2p	
430		1p 2p		480		1p 2p	
431		1p 2p		481		1p 2p	
432		1p 2p		482		1p 2p	
433		1p 2p		483		1p 2p	
434		1p 2p		484		1p 2p	
435		1p 2p		485		1p 2p	
436		1p 2p		486		1p 2p	
437		1p 2p		487		1p 2p	
438		1p 2p		488		1p 2p	
439		1p 2p		489		1p 2p	
440		1p 2p		490		1p 2p	
441		1p 2p		491		1p 2p	
442		1p 2p		492		1p 2p	
443		1p 2p		493		1p 2p	
444		1p 2p		494		1p 2p	
445		1p 2p		495		1p 2p	
446		1p 2p		496		1p 2p	
446		1p 2p		497		1p 2p	
448		1p 2p		498		1p 2p	
449		1p 2p		499		1p 2p	
450		1p 2p		500		1p 2p	