DEALER SUPPORT GUIDE

SECURITY BRANDS

NON-CELLULAR ACCESS CONTROL

KEYPADS

WIRELESS ENTRY

TELEPHONE ENTRY

PROX READERS

WIEGAND SYSTEMS

SECURITY BRANDS INC

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More detailed information can be found on our website at **securitybrandsinc.com/resources**.

Terminology

Master Code
The four- or five-digit code used to enter programming mode
Programming Mode
The mode the unit is in while performing programming functions
Yellow LED on
Sub Mode
Used to enter a specific programming mode while programming the unit
Function Code
Programming code used to prescribe a specific number to a specific function
Access Code
Code issued to qualified entrants
Latch Code
Code used to hold open the device
Red LED stays on in this mode
Sleep Code
Puts unit in a state that will not allow programmed access code to work
LEDs flash while in this mode
Ready Mode
The mode the unit is in while waiting for an access code to be entered or a card to be read
Master Reset
Resets master/latch/sleep codes back to factory default
Unit Reset
Master reset plus deletes all access codes
Factory Default Master Code
1251 or 01251, see equipment owner manual for details
Yellow LED
Illuminated while in the programming mode
Red LED
Illuminated when the relay is activated
***** While in programming mode, clears anything entered incorrectly (mistyped)
# Exits programming mode

General Programming Steps

- Master code (1251) (yellow LED on)
  - You are now in programming mode
- Sub mode (1)
  - Used to enter access codes
- Enter access codes
  - Enter one or all
- Enter # to complete function and exit programming mode
- Typical steps
  - **1251** *beep beep* **1** * beep* **Desired Code** *beep beep* **#**

Advantage DKLP

19-100(i)
19-100sg

Factory Master Code = 1251

Sub mode #0: *Clear Memory of All Codes*	(Master Code) + 0 + (Master Code) + #
Sub mode #1: *Add Codes*	(Master Code) + 1 + (code) + (code) + … + #
Sub mode #2: *Delete Codes*	(Master Code) + 2 + (code) + (code) + … + #
Sub mode #3: *Change Master Code*	(Master Code) + 3 + (New Master Code) + #
Sub mode #4: *Set Relay Output Time*	(Master Code) + 4 + (Relay output time in seconds) + #

Master Reset: *Reset Master Code to Factory Default*

Step #1: Disconnect Power
Step #2: Reconnect Power while holding down the Reset Button
Step #3: A single beep will sound, indicating the master code has been reset

Use * to clear an incorrect entry
Use # to exit programming
Relay Output Times: 1 = 1 second, 2 = 2 seconds, etc… up to 9 seconds

Wire Colors:

Red:	Power: Positive (+), 6 – 12 VDC ONLY	
Black:	Power: Negative (-), Common	
Brown:	Relay Common	
Orange:	Normally Open	
Blue:	Normally Closed	
Gray:	Relay Common	(Shunt contact used for external alarm)
Violet:	Normally Open	(Shunt contact used for external alarm)
Yellow:	Normally Closed	(Shunt contact used for external alarm)

Advantage DKW

19-100w433

Factory Master Code = 1251

Sub mode #0: *Clear Memory of All Codes*	(Master Code) + 0 + (Master Code) + #
Sub mode #1: *Add Codes*	(Master Code) + 1 + (code) + (code) + … + #
Sub mode #2: *Delete Codes*	(Master Code) + 2 + (code) + (code) + … + #
Sub mode #3: *Change Master Code*	(Master Code) + 3 + (New Master Code) + #
Sub mode #4: *Set Relay Output Time*	(Master Code) + 4 + (Relay output time in seconds) + #

Master Reset: *Reset Master Code to Factory Default*

Step #1: Disconnect Power
Step #2: Reconnect Power while holding down the Reset Button
Step #3: A single beep will sound, indicating the master code has been reset

Advantage DKE

26-100L
26-100sg

Factory Master Code = 1251

Sub mode #0: *Clear Memory of All Codes*	(Master Code) + 0 + (Master Code) + #
Sub mode #1: *Add Codes*	(Master Code) + 1 + (code) + (code) + … + #
Sub mode #2: *Delete Codes*	(Master Code) + 2 + (code) + (code) + … + #
Sub mode #3: *Change Master Code*	(Master Code) + 3 + (New Master Code) + #
Sub mode #4: *Set Relay Output Time*	(Master Code) + 4 + (Relay output time in seconds) + #
Sub mode #5: *Latch Code*	(Master Code) + 5 + (code) + #

Master Reset: *Reset Master Code to Factory Default*

Step #1: Disconnect Power
Step #2: Reconnect Power while holding down the Reset Button
Step #3: A single beep will sound, indicating the master code has been reset

Use * to clear an incorrect entry
Use # to exit programming
Relay Output Times: 1 = 1 second, 2 = 2 seconds, etc… up to 9 seconds

Wire Colors:

White:	Power: 12 – 24 VAC or VDC
White:	Power: 12 – 24 VAC or VDC
Brown:	Relay Common
Orange:	Normally Open
Blue:	Normally Closed

Advantage DK

ADV-1000(i)

Factory Master Code = 1251

Sub mode #0: *Clear Memory of All Codes*	(Master Code) + 0 + (Master Code)
Sub mode #1: *Program Relay A Codes*	(Master Code) + 1 + (code) + (code) + … + #
Sub mode #2: *Delete Codes*	(Master Code) + 2 + (code) + (code) + … + #
Sub mode #3: *Change Master Code*	(Master Code) + 3 + (New Master Code)
Sub mode #4: *Set Sleep Code*	(Master Code) + 4 + (Sleep Code)
Sub mode #5: *Set Latch Code*	(Master Code) + 5 + (Latch Code)
Sub mode #6: *Set Relay Output Time*	(Master Code) + 6 + (Relay #)* + (Relay output time in seconds) * Relay A = 1, Relay B = 2
Sub mode #7: *Program Relay B Codes*	(Master Code) + 7 + (code) + (code) + … + #
Sub mode #8: *Toggle 3 Strikes On/Off*	(Master Code) + 8 + (Master Code)
Sub mode #9: *Program Event Input*	
To Disable:	(Master Code) + 9 + 0
For Remote Inactive:	(Master Code) + 9 + 1
For Arming Circuit:	(Master Code) + 9 + 2
For Remote Open:	(Master Code) + 9 + 3 + (Relay #)* * Relay A = 1, Relay B = 2

Master Reset: *Reset Master Code to Factory Default*

Step #1: Disconnect Power
Step #2: Reconnect Power while holding down the Reset Button
Step #3: Release the reset button and enter * * * from the keypad
Step #4: A single beep will sound, indicating the master code has been reset

Use * to clear an incorrect entry
Use # to exit programming
Relay Output Times: 01 = 1 second, 02 = 2 seconds, etc… up to 999 seconds

Wire Colors:

White:	Power: 12 –24 VAC or VDC	
White:	Power: 12 –24 VAC or VDC	
Green:	Earth Ground	
Brown:	Relay Common	(Relay A)
Orange:	Normally Open	(Relay A)
Blue:	Normally Closed	(Relay A)
Gray:	Relay Common	(Relay B)
Violet:	Normally Open	(Relay B)
Yellow:	Normally Closed	(Relay B)

Advantage DKS II

24-1000(d)(rt)

Factory Master Code = 01251
Maximum Number Allowed = 65535

Sub mode #100: *Program Relay A Codes*	(Master Code) + 100 + (code) + (code) + … + #
Sub mode #101: *Add Managers Codes*	(Master Code) + 101 + (code) + (code) + … + # ***[15 codes max]***
Sub mode #102: *Change Master Code*	(Master Code) + 102 + (New Master Code)
Sub mode #103: *Program Sleep Code*	(Master Code) + 103 + (Sleep Code)
Sub mode #104: *Program Latch A Code*	(Master Code) + 104 + (Latch A Code)
Sub mode #105: *Program Latch B Code*	(Master Code) + 105 + (Latch B Code)
Sub mode #106: *Program Relay B Codes*	(Master Code) + 106 + (Relay B Code) + (Relay B Code) + … + #
Sub mode #200: *Delete Codes*	(Master Code) + 200 + (code) + (code) + … + #
Sub mode #299: *Clear Memory*	(Master Code) + 299 + (Master Code)
Sub mode #300: *Set Relay A Output Time*	(Master Code) + 300 + (Relay output time in seconds)
Sub mode #301: *Set Relay B Output Time*	(Master Code) + 301 + (Relay output time in seconds)
Sub mode #302: *Set Clock Time*	(Master Code) + 302 + (Hours) + (Minutes)
Sub mode #303: *Set Clock Date*	(Master Code) + 303 + (Month) + (Day) + (Year)
Sub mode #304: *Generate Random Codes**	(Master Code) + 304 + (Master Code) *This will erase all codes in memory and fill with random codes
Sub mode #305: *Generate Random Codes*	(Master Code) + 305 + (Number of codes to be generated)
Sub mode #306: *Toggle 3 Strikes On/Off*	(Master Code) + 306 + (Master Code)
Sub mode #307: *Toggle Split Relay On/Off*	(Master Code) + 307 + (Master Code)
Sub mode #308: *Toggle Anti-Passback On/Off*	
To toggle on:	(Master Code) + 308 + (APB Master Code) + (Number of slaves)
To toggle off:	(Master Code) + 308 + (Master Code)
To clear APB of a specific code:	(APB Master Code) + (Specific access code)
To clear APB of all codes:	(APB Master Code) + (Master Code)
Sub mode #309: *Quiet Mode*	(Master Code) + 309 + (Master Code)
Sub mode #401: *Print All Current Codes*	(Master Code) + 401
Sub mode #402: *Print Specific Code Trail*	(Master Code) + 402 + (Specific Code Number)
Sub mode #403: *Set Printer Baud Rate*	(Master Code) + 403 + (1, 2, 3, or 4)* * 1=9600 baud, 2=4800 baud, 3=2400 baud, 4= 1200 baud
Sub mode #404: *Red Printing on Invalid Codes*	(Master Code) + 404 + (Master Code)
Sub mode #405: *Print Current Configuration*	(Master Code) + 405
Sub mode #499: *Clear History Buffer*	(Master Code) + 499 + (Master Code)

Master Reset: *Reset Master Code to Factory Default*

Step #1: Disconnect Power
Step #2: Reconnect Power while holding down the Reset Button
Step #3: Release the reset button and enter * * * from the keypad
Step #4: A single beep will sound, indicating the master code has been reset

Use * to clear an incorrect entry
Use # to exit programming
Relay Output Times: 01 = 1 second, 02 = 2 seconds, etc… up to 999 seconds

Wiring: Belden 9942 or equivalent

Number	Wire Name	Wire Color Code
1	LED	Brown
2	HOLD	Blue
3	DATA 1	White
4	DATA 0	Green
5	GROUND	Black
6	+12 VOLTS	Red

Advantage DG

23-2000d, 23-2000rt

Factory Master Code = 1251
Maximum Card Number Allowed =2000

Sub mode #100: *Program Relay A Cards*	(Master Code) + 100 + (1st card) + (Last card) + # (Block Format)
Sub mode #101: *Add Manager Cards*	(Master Code) + 101 + (1st card) + (Last card) + # (Block Format)
Sub mode #102: *Program Sleep Card*	(Master Code) + 102 + (1st card) + (Last card) + # (Block Format)
Sub mode #103: *Program Latch A Card*	(Master Code) + 103 + (1st card) + (Last card) + # (Block Format)
Sub mode #104: *Program Latch B Card*	(Master Code) + 104 + (1st card) + (Last card) + # (Block Format)
Sub mode #105: *Program Relay B Cards*	(Master Code) + 105 + (1st card) + (Last card) + # (Block Format)
Sub mode #106: *Set Facility Code (3 Max.)*	(Master Code) + 106 + (code) + (code) + … + #
Sub mode #108: *Change Master Code*	(Master Code) + 108 + (Master Code)
Sub mode #109: *Change Quick Entry Code*	(Master Code) + 109 + (new code)
Sub mode #110: *Change Quick Delete Code*	(Master Code) + 110 + (new code)
Sub mode #200: *Delete Card(s)*	(Master Code) + 200 + (1st card) + (Last card) + # (Block Format)
Sub mode #299: *Clear APB Status*	(Master Code) + 299 + (Master Code)
Sub mode #300: *Set Relay A Output Time*	(Master Code) + 300 + (Relay output time in seconds)
Sub mode #301: *Set Relay B Output Time*	(Master Code) + 301 + (Relay output time in seconds)
Sub mode #302: *Set Clock Time*	(Master Code) + 302 + (Hours) + (Minutes)
Sub mode #303: *Set Clock Date*	(Master Code) + 303 + (Month) + (Day) + (Year)
Sub mode #307: *Toggle Split Relay On/Off*	(Master Code) + 307 + (Master Code)
Sub mode #308: *Toggle Anti-Passback On/Off*	
To toggle on:	(Master Code) + 308 + (APB Master Code)
To toggle off:	(Master Code) + 308 + (APB Master Code)
To clear APB of a specific code:	(APB Master Code) + (Specific access code)
To clear APB of all codes:	See Sub mode #299
Sub mode #309: *Quiet Mode*	(Master Code) + 309 + (Master Code)
Sub mode #401: *Print All Current Cards*	(Master Code) + 401
Sub mode #402: *Print Specific Card Trail*	(Master Code) + 402 + (Specific Card Number)
Sub mode #403: *Set Printer Baud Rate*	(Master Code) + 403 + (1, 2, 3, or 4)*
	* 1=9600 baud, 2=4800 baud, 3=2400 baud, 4= 1200 baud
Sub mode #404: *Red Printing on Invalid Codes*	(Master Code) + 404 + (Master Code)
Sub mode #405: *Print Current Configuration*	(Master Code) + 405
Sub mode #499: *Clear History Buffer*	(Master Code) + 499 + (Master Code)

Master Reset: *Reset Master Code to Factory Default*

Step #1: Disconnect Power
Step #2: Reconnect Power while holding down the Reset Button
Step #3: Release the reset button and enter * * * from the keypad
Step #4: A single beep will sound, indicating the master code has been reset

Use * to clear an incorrect entry
Use # to exit programming
Relay Output Times: 1 = 1 second, 2 = 2 seconds, etc… up to 99 seconds

Wiring: Belden 9942 or equivalent

Number	Wire Name	Wire Color Code
1	LED	Brown
2	HOLD	Blue
3	DATA 1	White
4	DATA 0	Green
5	GROUND	Black
6	+12 VOLTS	Red

Pro Access 200

25-201K

Software programming

Computer system requirement-

Workstation (Client) Minimum requirements:

Windows NT4.0	500 MHz, 128 MB RAM, 1GB Disk Space
Windows 2000	700 MHz, 128 MB RAM, 1 GB Disk
Windows XP	1 GHz, 256 MB RAM, 1 GB Disk Space

Recommended System:

Windows XP or greater	2.0 GHz, 1GB RAM, 10 GB Disk Space

Server Minimum Requirements (For client/server versions):

Windows 2000 or greater	1.4 GHz RAM, 10 GB Disk Space

Required Peripherals: Serial COM Port or TCP/IP, 16 BIT color Video card, CD Drive (Unless software downloaded)

Inputs

Door 1:

J5- Wiegand input, Belden # 9942
J1- Relay output- 2 conductor, 18 gauge
J3- Aux relay

Door 2:

J6- Wiegand input, Belden # 9942
J2- Relay output- 2 conductor, 18 gauge
J4- Aux relay

J7- RS 232 port to PC and power 16.5 to 24 VAC
J8- RS 485 port to PC, Belden # 9842- 2 conductor, 22 gauge
J9- Expansion

RJ11 jack / RS 232 port to PC

Battery backup- 2 conductor, 18 gauge

Red	14 VDC
Black	Gnd

25-201k:

RS-232 cable included- Controller to PC or laptop
16.5 VAC transformer included
2 input ports for 2 devices
Wiegand, reader to controller Belden # 9942 or equivalent required, 500' max
2 output ports N/O or N/C for 2 devices
4 conductor, 18 gauge, form C relay wire
RS 485 communication for connecting controller to controller

Wiegand Output Equipment

RemotePro KP

12-000
12-000i
12-000sg

26-bit Wiegand
Dipswitch setting for any 26-bit facility code

Wire requirement:

Wiring: Belden 9942 or equivalent
6 conductor, 22 gauge, twisted, shielded

Number	Wire Name	Wire Color Code
1	LED	Brown
2	HOLD	Blue
3	DATA 1	White
4	DATA 0	Green
5	GROUND	Black
6	+12 VOLTS	Red

RemotePro CR

23-006
23-006i
40-006
40-008
40-009

Wiring: Belden 9942 or equivalent
6 conductor, 22 gauge, twisted, shielded

Number	Wire Name	Wire Color Code
1	LED	Brown
2	HOLD	Blue
3	DATA 1	White
4	DATA 0	Green
5	GROUND	Black
6	+12 VOLTS	Red

Wiegand Signal Extender

21-002

Wiring:

Input from reader or keypad:

Number	Wire Name	Wire Color Code
1	LED	Brown
2	HOLD	Blue
3	DATA 1	White
4	DATA 0	Green
5	GROUND	Black
6	+12 VOLTS	Red

Wiring:

Output from reader or keypad:

Number	Wire Name	Wire Color Code
1	LED	Brown
2	HOLD	Blue
3	DATA 1	White
4	DATA 0	Green
5	GROUND	Black
6	+12 VOLTS	Red

Belden 9942 or Equivalent
6 conductor, 22 gauge, twisted, shielded

Standalone Proximity Card Reader

23-213(i), 23-206(i)

Factory Master Code = 1251
Maximum Card Number Allowed =2000

Sub mode #100: *Program Relay A Cards*	(Master Code) + 100 + (1st card) + (Last card) + # (Block Format)
Sub mode #101: *Add Manager Cards*	(Master Code) + 101 + (1st card) + (Last card) + # (Block Format)
Sub mode #102: *Program Sleep Card*	(Master Code) + 102 + (1st card) + (Last card) + # (Block Format)
Sub mode #103: *Program Latch A Card*	(Master Code) + 103 + (1st card) + (Last card) + # (Block Format)
Sub mode #104: *Program Latch B Card*	(Master Code) + 104 + (1st card) + (Last card) + # (Block Format)
Sub mode #105: *Program Relay B Cards*	(Master Code) + 105 + (1st card) + (Last card) + # (Block Format)
Sub mode #106: *Set Facility Code (3 Max.)*	(Master Code) + 106 + (code) + (code) + … + #
Sub mode #108: *Change Master Code*	(Master Code) + 108 + (Master Code)
Sub mode #109: *Change Quick Entry Code*	(Master Code) + 109 + (new code)
Sub mode #110: *Change Quick Delete Code*	(Master Code) + 110 + (new code)
Sub mode #200: *Delete Card(s)*	(Master Code) + 200 + (1st card) + (Last card) + # (Block Format)
Sub mode #299: *Clear APB Status*	(Master Code) + 299 + (Master Code)
Sub mode #300: *Set Relay A Output Time*	(Master Code) + 300 + (Relay output time in seconds)
Sub mode #301: *Set Relay B Output Time*	(Master Code) + 301 + (Relay output time in seconds)
Sub mode #302: *Set Clock Time*	(Master Code) + 302 + (Hours) + (Minutes)
Sub mode #303: *Set Clock Date*	(Master Code) + 303 + (Month) + (Day) + (Year)
Sub mode #307: *Toggle Split Relay On/Off*	(Master Code) + 307 + (Master Code)
Sub mode #308: *Toggle Anti-Pass back On/Off*	
To toggle on:	(Master Code) + 308 + (APB Master Code)
To toggle off:	(Master Code) + 308 + (APB Master Code)
To clear APB of a specific code:	(APB Master Code) + (Specific access code)
To clear APB of all codes:	See Sub mode #299
Sub mode #309: *Quiet Mode*	(Master Code) + 309 + (Master Code)
Sub mode #401: *Print All Current Cards*	(Master Code) + 401
Sub mode #402: *Print Specific Card Trail*	(Master Code) + 402 + (Specific Card Number)
Sub mode #403: *Set Printer Baud Rate*	(Master Code) + 403 + (1, 2, 3, or 4)* * 1=9600 baud, 2=4800 baud, 3=2400 baud, 4= 1200 baud
Sub mode #404: *Red Printing on Invalid Codes*	(Master Code) + 404 + (Master Code)
Sub mode #405: *Print Current Configuration*	(Master Code) + 405
Sub mode #499: *Clear History Buffer*	(Master Code) + 499 + (Master Code)

Master Reset: *Reset Master Code to Factory Default*

Step #1: Disconnect Power
Step #2: Reconnect Power while holding down the Reset Button
Step #3: Release the reset button and enter * * * from the keypad
Step #4: A single beep will sound, indicating the master code has been reset

Use * to clear an incorrect entry
Use # to exit programming
Relay Output Times: 1 = 1 second, 2 = 2 seconds, etc… up to 99 seconds

Wiring: Belden 9942 or equivalent

Number	Wire Name	Wire Color Code
1	LED	Brown
2	HOLD	Blue
3	DATA 1	White
4	DATA 0	Green
5	GROUND	Black
6	+12 VOLTS	Red

ProxPad – Card Reader

23-213kp, 23-206kp

Factory Master Code = 1251
Maximum Card Number Allowed =2000

Sub mode #100: *Program Relay A Cards*	(Master Code) + 100 + (1st card) + (Last card) + # (Block Format)
Sub mode #101: *Add Manager Cards*	(Master Code) + 101 + (1st card) + (Last card) + # (Block Format)
Sub mode #102: *Program Sleep Card*	(Master Code) + 102 + (1st card) + (Last card) + # (Block Format)
Sub mode #103: *Program Latch A Card*	(Master Code) + 103 + (1st card) + (Last card) + # (Block Format)
Sub mode #104: *Program Latch B Card*	(Master Code) + 104 + (1st card) + (Last card) + # (Block Format)
Sub mode #105: *Program Relay B Cards*	(Master Code) + 105 + (1st card) + (Last card) + # (Block Format)
Sub mode #106: *Set Facility Code (3 Max.)*	(Master Code) + 106 + (code) + (code) + … + #
Sub mode #108: *Change Master Code*	(Master Code) + 108 + (Master Code)
Sub mode #109: *Change Quick Entry Code*	(Master Code) + 109 + (new code)
Sub mode #110: *Change Quick Delete Code*	(Master Code) + 110 + (new code)
Sub mode #200: *Delete Card(s)*	(Master Code) + 200 + (1st card) + (Last card) + # (Block Format)
Sub mode #299: *Clear APB Status*	(Master Code) + 299 + (Master Code)
Sub mode #300: *Set Relay A Output Time*	(Master Code) + 300 + (Relay output time in seconds)
Sub mode #301: *Set Relay B Output Time*	(Master Code) + 301 + (Relay output time in seconds)
Sub mode #302: *Set Clock Time*	(Master Code) + 302 + (Hours) + (Minutes)
Sub mode #303: *Set Clock Date*	(Master Code) + 303 + (Month) + (Day) + (Year)
Sub mode #307: *Toggle Split Relay On/Off*	(Master Code) + 307 + (Master Code)
Sub mode #308: *Toggle Anti-Pass back On/Off*	
To toggle on:	(Master Code) + 308 + (APB Master Code)
To toggle off:	(Master Code) + 308 + (APB Master Code)
To clear APB of a specific code:	(APB Master Code) + (Specific access code)
To clear APB of all codes:	See Sub mode #299
Sub mode #309: *Quiet Mode*	(Master Code) + 309 + (Master Code)
Sub mode #401: *Print All Current Cards*	(Master Code) + 401
Sub mode #402: *Print Specific Card Trail*	(Master Code) + 402 + (Specific Card Number)
Sub mode #403: *Set Printer Baud Rate*	(Master Code) + 403 + (1, 2, 3, or 4)* * 1=9600 baud, 2=4800 baud, 3=2400 baud, 4= 1200 baud
Sub mode #404: *Red Printing on Invalid Codes*	(Master Code) + 404 + (Master Code)
Sub mode #405: *Print Current Configuration*	(Master Code) + 405
Sub mode #499: *Clear History Buffer*	(Master Code) + 499 + (Master Code)

Master Reset: *Reset Master Code to Factory Default*

Step #1: Disconnect Power
Step #2: Reconnect Power while holding down the Reset Button
Step #3: Release the reset button and enter * * * from the keypad
Step #4: A single beep will sound, indicating the master code has been reset

Use * to clear an incorrect entry
Use # to exit programming
Relay Output Times: 1 = 1 second, 2 = 2 seconds, etc… up to 99 seconds

Wiring: Belden 9942 or equivalent

Number	Wire Name	Wire Color Code
1	LED	Brown
2	HOLD	Blue
3	DATA 1	White
4	DATA 0	Green
5	GROUND	Black
6	+12 VOLTS	Red

ProxPad – Keypad

23-213kp, 23-206kp

Factory Master Code = 1251

Sub mode #0: *Clear Memory of All Codes*	(Master Code) + 0 + (Master Code) + #
Sub mode #1: *Add Codes*	(Master Code) + 1 + (code) + (code) + … + #
Sub mode #2: *Delete Codes*	(Master Code) + 2 + (code) + (code) + … + #
Sub mode #3: *Change Master Code*	(Master Code) + 3 + (New Master Code) + #
Sub mode #4: *Set Relay Output Time*	(Master Code) + 4 + (Relay output time in seconds) + #
Sub mode #5: *Latch Code*	(Master Code) + 5 + (code) + #

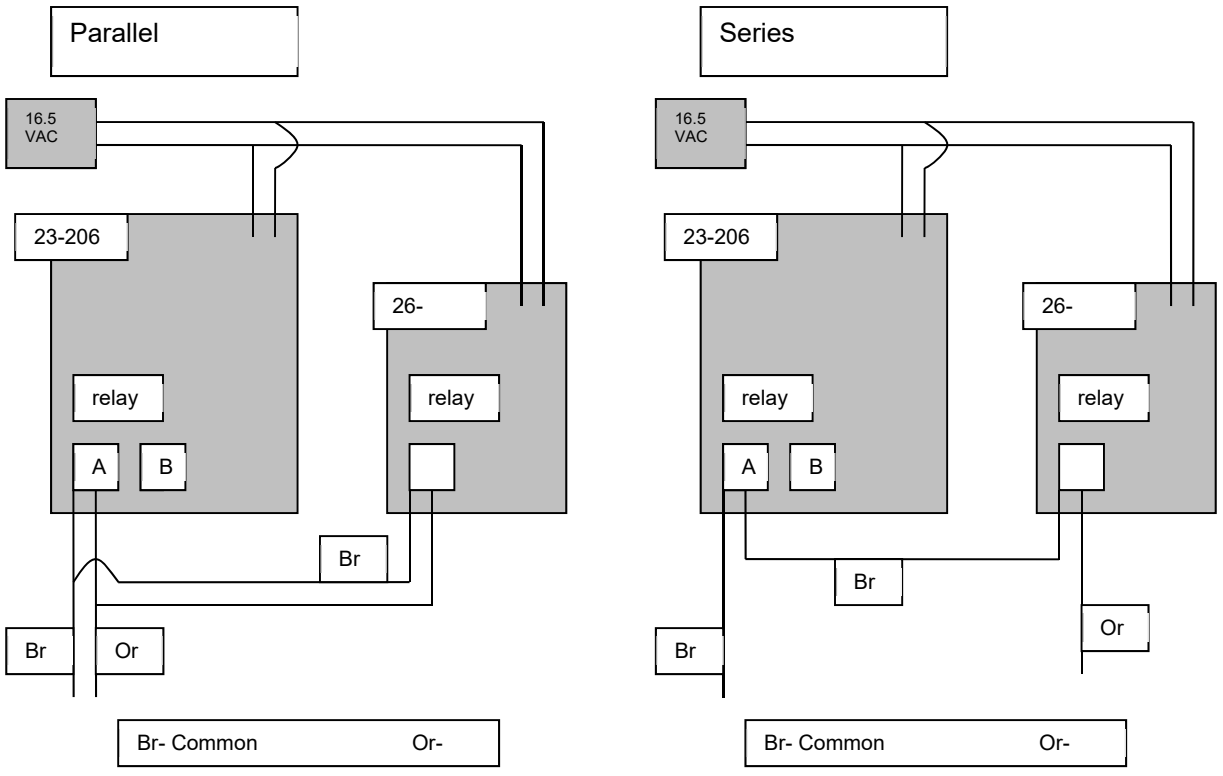
Master Reset: *Reset Master Code to Factory Default*

Step #1: Disconnect Power
Step #2: Reconnect Power while holding down the Reset Button
Step #3: A single beep will sound, indicating the master code has been reset

Use * to clear an incorrect entry
Use # to exit programming
Relay Output Times: 1 = 1 second, 2 = 2 seconds, etc… up to 9 seconds

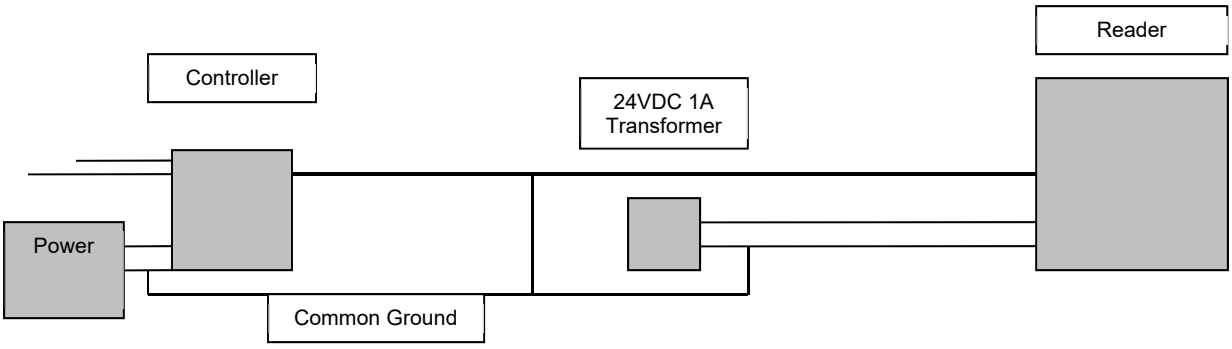
Wire Colors:

White:	Power: 12–24 VAC or VDC
White:	Power: 12–24 VAC or VDC
Brown:	Relay Common
Orange:	Normally Open
Blue:	Normally Closed

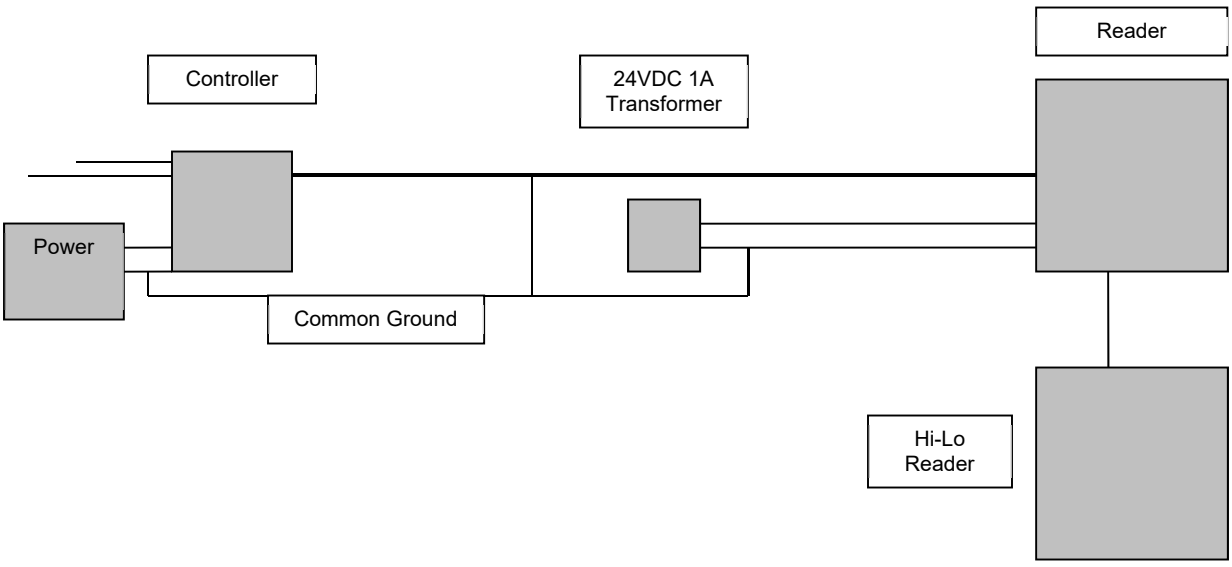


Long-Range Vehicle Tag Systems

HID - Long Range Proximity



AWID AVI Vehicle Entry



PhoneLink

16-2050, 16-5500

Factory Master Code = 1251

Sub mode #0: *Clear Memory of All Codes*	(Master Code) + 0 + (Master Code)
Sub mode #1: *Add Relay A Codes*	(Master Code) + 1 + (code) + (code) + … + #
Sub mode #2: *Delete Codes both relays*	(Master Code) + 2 + (code) + (code) + … + #
Sub mode #3: *Change Master Code*	(Master Code) + 3 + (New Master Code)
Sub mode #4+1: *Set Sleep Code*	(Master Code) + 4 + 1 + (Sleep Code)
Sub mode #4+2: *Set Latch Code*	(Master Code) + 4 + 2 + (Latch Code)
Sub mode #4+3: *Set Call Forwarding*	
Assign number	(Master Code) + 4 + 3 + (Status) + 2 + (7-, 10-,11-digit number)
Disable forwarding	(Master Code) + 4 + 3 + (Status) + 0
Enable forwarding	(Master Code) + 4 + 3 + (Status) + 1
Status	Single beep = enabled / Double beep = disabled
Sub mode #5: *Set One Shot Code*	
Disable One shot code	(Master Code) + 5 + (Status) + 0
Enable One shot code	(Master Code) + 5 + (Status) + 1
Change one shot code	(Master Code) + 5 + (Status) + 2 + One shot code
Change relay activated	(Master Code) + 5 + (Status) + 3 + (Relay#) 1= Relay A / 2= Relay B
Sub mode #6: *Set Relay Output Time*	(Master Code) + 6 + (Relay #)* + (Relay output time in seconds) * Relay A = 1, Relay B = 2
Sub mode #7: Add *Relay B Codes*	(Master Code) + 7 + (code) + (code) + … + #
Sub mode #8: *Toggle 3 Strikes On/Off*	(Master Code) + 8 (*current status) + (Master Code) Single beep= enabled / double beep= disabled
Sub mode #9: *Program Event Input*	
To Disable:	(Master Code) + 9 + 0
For Remote Inactive:	(Master Code) + 9 + 1
For Arming Circuit:	(Master Code) + 9 + 2
For Remote Open:	(Master Code) + 9 + 3 + (Relay #)* * Relay A = 1, Relay B = 2

Master Reset: *Reset Master Code to Factory Default*
Follow these steps precisely. If you make an error, the unit will *ERROR* and you will have to start over.
Press and hold the RESET BUTTON, then press and release the SETUP BUTTON.
Release the RESET BUTTON and the unit will go into an endless tone cycle.
Enter *** * *** from the keypad. The unit will go into an endless tone cycle.
Press and release the SETUP button and the master code will be set back to **1 2 5 1**.
If you previously were in the sleep or latch mode, the unit will be brought back to normal idle mode.

Unit Reset: (!!!!! WARNING: ALL CODES WILL BE DELETED FROM MEMORY!!!!!)
Press and hold the RESET BUTTON, then press and release the SETUP BUTTON.
Release the RESET BUTTON and the unit will go into an endless tone cycle.
Enter **# * #** (The unit will respond with a *GOOD BEEP*)
Enter the *MASTER CODE* from the keypad. (The unit will flash the LED*s*
several times and then go into an endless tone cycle)
Press and release SETUP BUTTON.

Use * to clear an incorrect entry
Use # to exit programming
Relay Output Times: 01 = 1 second, 02 = 2 seconds, etc… up to 99 seconds

Continued on next page…

Phone and PBX line hookup

Wiring from Control Board	Type of Wire	Recommended
To Telco Box CO (Omit for PBX mode)	**18 to 24 Gauge twisted pair shielded**	**Belden #9502 or equivalent**
To home phones	**18 to 24 Gauge twisted pair shielded**	**Belden #9502 or equivalent**

Telephone cable 4 conductor telephone cable typical, Belden 9502 or equivalent
18 to 24 gauge, twisted pair, shielded

Power and relay hookup

Wiring from PhoneLink 500	Type of Wire	Recommended
To the 12V AC/DC power source	**2 conductor cable**	**18 gauge stranded**
To gate operator, door strike, or magnetic strike	**2 conductor cable**	**Device manufacturer specs**
To strike power supply (if used)	**2 conductor cable**	**Device manufacturer specs**
To earth ground	**12 AWG copper wire**	**Belden #9912 or equivalent**

PhoneLink Wiring

Proper wire size is necessary for a good and trouble-free installation. Follow the tables below for your installation.

Power: 12 VAC or VDC
Power: 12 VAC or VDC
Earth Ground to grounding rod, FCC requirement Belden 9912 or equivalent

DC Power Wire Size	Distance (in feet)	AC Power Wire Size
18 AWG	**30' or less**	**18 AWG**
18 AWG	**30' to 75'**	**16 AWG**
18 AWG	**75' to 150'**	**12 AWG**
16 AWG	**150' to 250'**	**10 AWG**
12 AWG	**250' to 500'**	**N/A**

Relay Common (Relay A)
Normally Open (Relay A) } 2 conductor, 18 gauge
Normally Closed (Relay A)

Relay Common (Relay B)
Normally Open (Relay B) } 2 conductor, 18 gauge
Normally Closed (Relay B)

Event Input } 2 conductor, 18 gauge
Event input

PhoneAire

16-1050, 16-1055

Factory Master Code = 1251

Sub mode #0: *Clear Memory of All Codes*	(Master Code) + 0 + (Master Code)
Sub mode #1: *Add Relay A Codes*	(Master Code) + 1 + (code) + (code) + … + #
Sub mode #2: *Delete Codes both relays*	(Master Code) + 2 + (code) + (code) + … + #
Sub mode #3: *Change Master Code*	(Master Code) + 3 + (New Master Code)
Sub mode #4+1: *Set Sleep Code*	(Master Code) + 4 + 1 + (Sleep Code)
Sub mode #4+2: *Set Latch Code*	(Master Code) + 4 + 2 + (Latch Code)
Sub mode #4+3: *Set Call Forwarding*	
Assign number	(Master Code) + 4 + 3 + (Status) + 2 + (7-, 10-, 11-digit number)
Disable forwarding	(Master Code) + 4 + 3 + (Status) + 0
Enable forwarding	(Master Code) + 4 + 3 + (Status) + 1
Status	Single beep = enabled / Double beep = disabled
Sub mode #5: *Set One Shot Code*	
Disable One shot code	(Master Code) + 5 + (Status) + 0
Enable One shot code	(Master Code) + 5 + (Status) + 1
Change one shot code	(Master Code) + 5 + (Status) + 2 + One shot code
Change relay activated	(Master Code) + 5 + (Status) + 3 + (Relay#) 1= Relay A / 2= Relay B
Sub mode #6: *Set Relay Output Time*	(Master Code) + 6 + (Relay #)* + (Relay output time in seconds) * Relay A = 1, Relay B = 2
Sub mode #7: Add *Relay B Codes*	(Master Code) + 7 + (code) + (code) + … + #
Sub mode #8: *Toggle 3 Strikes On/Off*	(Master Code) + 8 (*current status) + (Master Code) Single beep= enabled / double beep= disabled
Sub mode #9: *Program Event Input*	
To Disable:	(Master Code) + 9 + 0
For Remote Inactive:	(Master Code) + 9 + 1
For Arming Circuit:	(Master Code) + 9 + 2
For Remote Open:	(Master Code) + 9 + 3 + (Relay #)* * Relay A = 1, Relay B = 2

Master Reset: *Reset Master Code to Factory Default*

Follow these steps precisely. If you make an error, the unit will ERROR and you will have to start over.
Press and hold down SWRESET button. Press and release HWRESET button. Unit will beep continually.
Press *** on keypad.
Press and release HWRESET button.
The unit will issue a good beep and the master code will be set back to 1 2 5 1.
If you previously were in the sleep or latch mode, the unit will be brought back to idle state.

Unit Reset: *Reset entire unit back to Factory Default*
Unit Reset (!!!!! WARNING: ALL CODES WILL BE DELETED FROM MEMORY !!!!!)
Follow these steps precisely. If you make an error, the unit will ERROR and you will have to start over.
Press and hold down SWRESET button.
Press and release HWRESET button. Unit will beep continually.
Press *** on keypad. Press and release HWRESET button & enter # * # (The unit will respond with a GOOD BEEP).
Enter 1251 from the keypad. (The unit will flash the LEDs several times and then go into an endless cycle of beeps).
Press and release HWRESET button.

Use * to clear an incorrect entry
Use # to exit programming
Relay Output Times: 01 = 1 second, 02 = 2 seconds, etc… up to 99 seconds

Phone and PBX line hookup

Wiring from Control Board	Type of Wire	Recommended
To Telco Box CO (Omit for PBX mode)	**18 to 24 Gauge twisted pair shielded**	**Belden #9502 or equivalent**
To home phones	**18 to 24 Gauge twisted pair shielded**	**Belden #9502 or equivalent**

Telephone cable 4 conductor telephone cable typical, Belden 9502 or equivalent
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Power and relay hookup

Wiring from PhoneLink 500	Type of Wire	Recommended
To the 12V AC/DC power source	**2 conductor cable**	**18 gauge stranded**
To gate operator, door strike, or magnetic strike	**2 conductor cable**	**Device manufacturer specs**
To strike power supply (if used)	**2 conductor cable**	**Device manufacturer specs**
To earth ground	**12 AWG copper wire**	**Belden #9912 or equivalent**

PhoneAire Wiring

Proper wire size is necessary for a good and trouble-free installation. Follow the tables below for your installation.

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Power: 12 VAC or VDC
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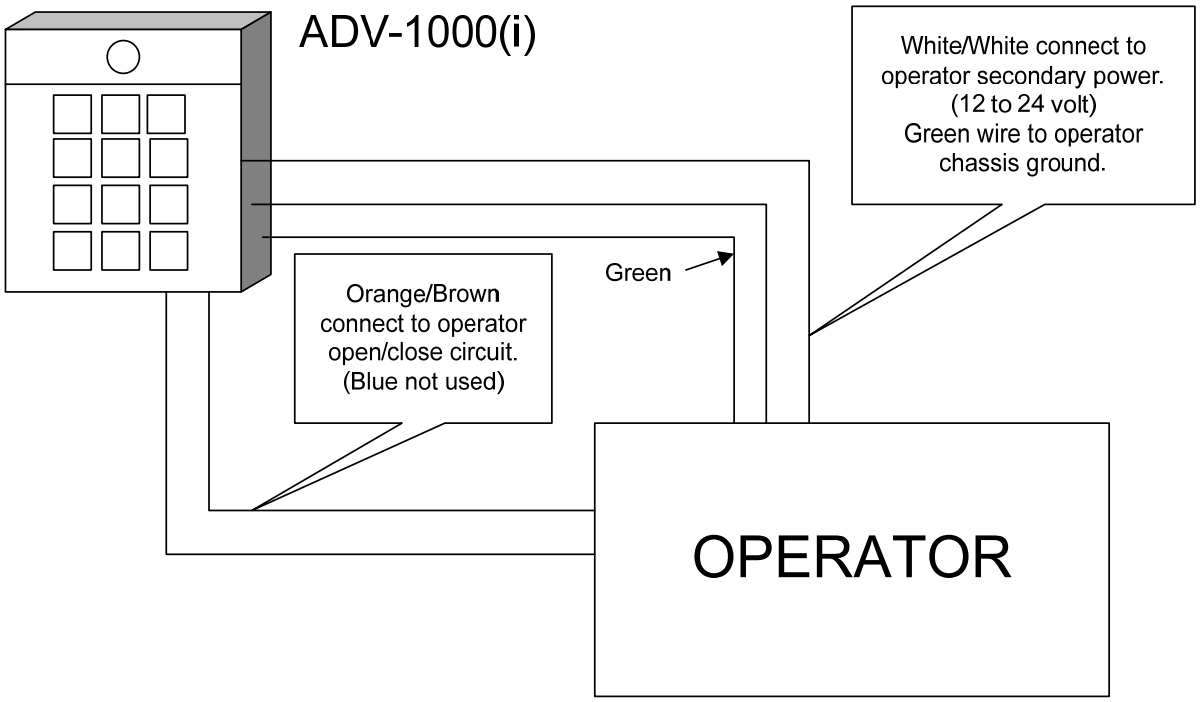
18 AWG	**30' to 75'**	**16 AWG**
18 AWG	**75' to 150'**	**12 AWG**
16 AWG	**150' to 250'**	**10 AWG**
12 AWG	**250' to 500'**	**N/A**

Relay Common (Relay A)
Normally Open (Relay A) } 2 conductor, 18 gauge
Normally Closed (Relay A)

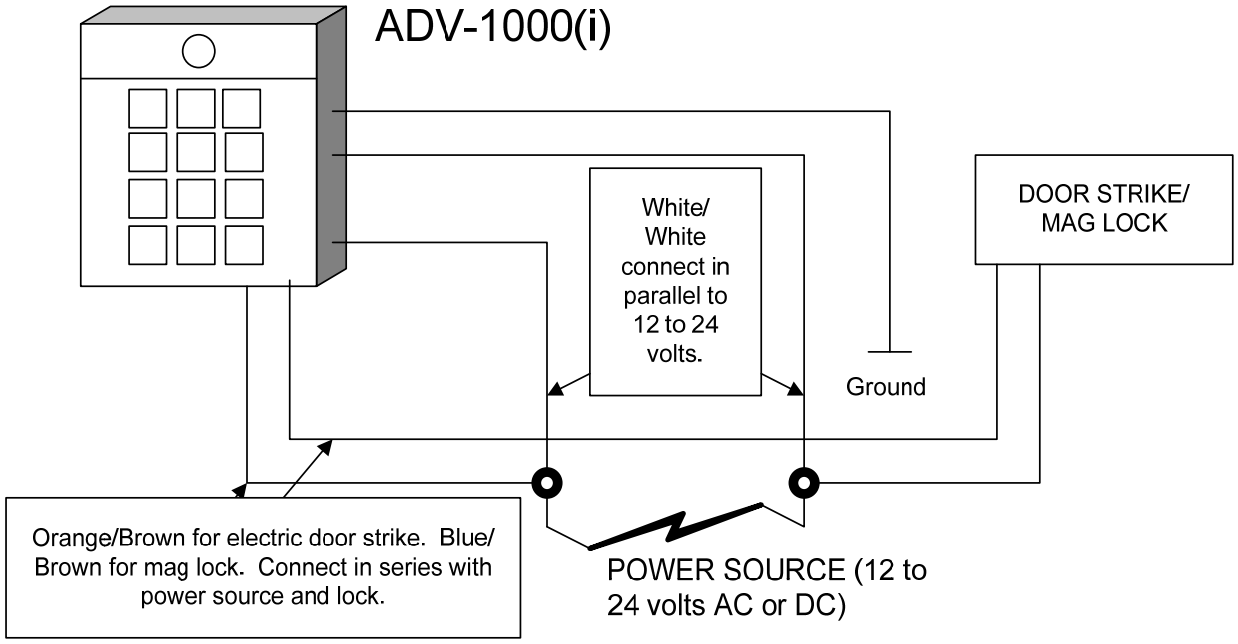
Relay Common (Relay B)
Normally Open (Relay B) } 2 conductor, 18 gauge
Normally Closed (Relay B)

Event Input } 2 conductor, 18 gauge
Event input

OPERATOR WIRING DIAGRAM

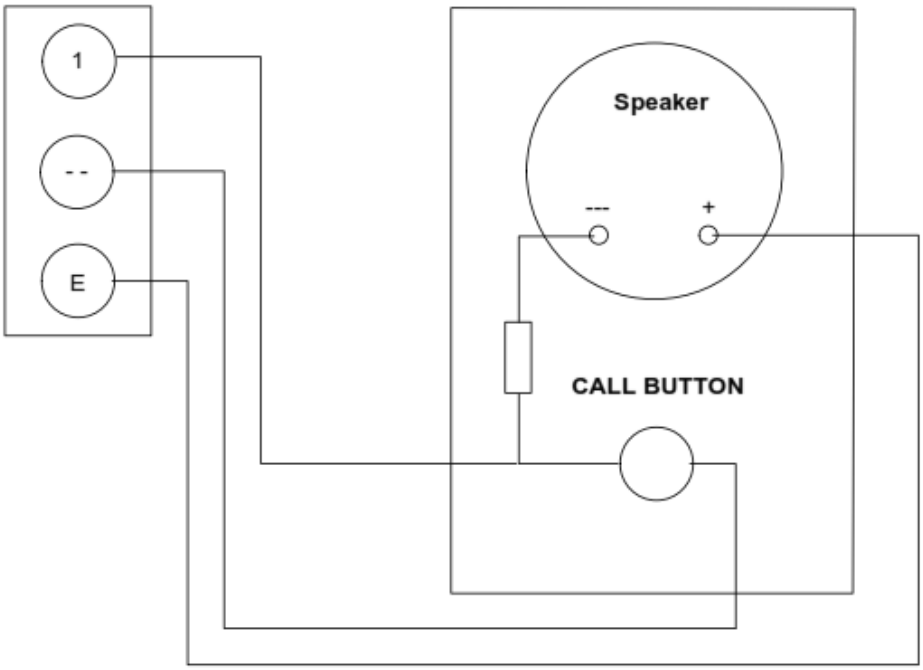


DOOR STRIKE/MAG LOCK WIRING DIAGRAM

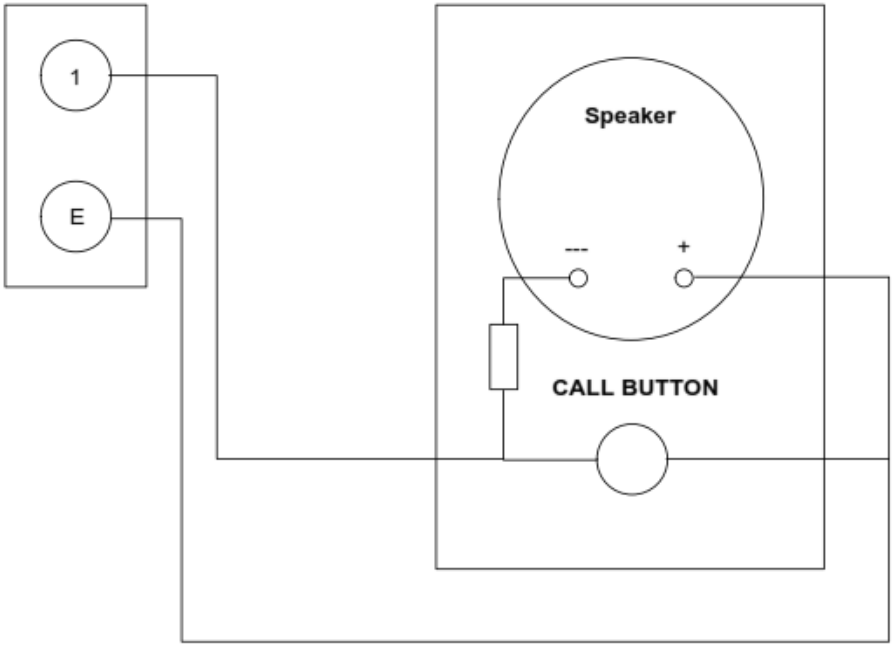


Wiring Diagram for Aiphone Intercoms

LEF MODELS



LEM MODELS



XL 660

S-XL-660

Factory Master Code = 1251

Sub mode #0: *Clear Memory of All Codes*	(Master Code) + 0 + (Master Code)
Sub mode #1: *Program Relay A Codes*	(Master Code) + 1 + (code) + (code) + … + #
Sub mode #2: *Delete Codes*	(Master Code) + 2 + (code) + (code) + … + #
Sub mode #3: *Change Master Code*	(Master Code) + 3 + (New Master Code)
Sub mode #5: *Set Latch Code*	(Master Code) + 5 + (Latch Code)
Sub mode #6: *Set Relay Output Time*	(Master Code) + 6 + (Relay #)* + (Relay output time in seconds) * Relay A = 1, Relay B = 2
Sub mode #7: *Program Relay B Codes*	(Master Code) + 7 + (code) + (code) + … + #
Sub mode #8: *Toggle 3 Strikes On/Off*	(Master Code) + 8 + (Master Code)
Sub mode #9: *Program Event Input*	
To Disable:	(Master Code) + 9 + 0
For Remote Inactive:	(Master Code) + 9 + 1
For Arming Circuit:	(Master Code) + 9 + 2
For Remote Open:	(Master Code) + 9 + 3 + (Relay #)* * Relay A = 1, Relay B = 2

Master Reset: *Reset Master Code to Factory Default*

Step #1: Disconnect Power
Step #2: Reconnect Power while holding down the Reset Button
Step #3: Release the reset button and enter * * * from the keypad
Step #4: A single beep will sound, indicating the master code has been reset

Use * to clear an incorrect entry
Use # to exit programming
Relay Output Times: 01 = 1 second, 02 = 2 seconds, etc… up to 999 seconds

Wire Colors:

White:	Power: 12 –24 VAC or VDC	
White:	Power: 12 –24 VAC or VDC	
Green:	Earth Ground	
Brown:	Relay Common	(Relay A)
Orange:	Normally Open	(Relay A)
Blue:	Normally Closed	(Relay A)
Gray:	Relay Common	(Relay B)
Violet:	Normally Open	(Relay B)
Yellow:	Normally Closed	(Relay B)

Ridge 1.0 (Pre 2017)

S-14-100-XXX

Factory Master Code = 1251

Sub mode #0: *Clear Memory of All Codes*	(Master Code) + 0 + (Master Code) + #
Sub mode #1: *Add Codes*	(Master Code) + 1 + (code) + (code) + … + #
Sub mode #2: *Delete Codes*	(Master Code) + 2 + (code) + (code) + … + #
Sub mode #3: *Change Master Code*	(Master Code) + 3 + (New Master Code) + #
Sub mode #4: *Set Relay Output Time*	(Master Code) + 4 + (Relay output time in seconds) + #

Master Reset: *Reset Master Code to Factory Default*

Step #1: Disconnect Power
Step #2: Reconnect Power while holding down the Reset Button
Step #3: A single beep will sound, indicating the master code has been reset

Pairing your Ridge keypad with various receivers

S-14-100-300 9V Battery

1. Locate your receiver. The digital code is determined by the position of the 10 small switches numbered 1 through 10 located in the receiver and the transmitter
2. Set both code switches to the code of your choice, being sure both are set the same since a different setting of just one switch will prevent operation. Any combination of “on” or “off” position can be selected by using a pen (Note: the switches are in the “on” position when the switch is depressed toward the number)
3. Once the codes have been set, check operation and reassemble products

S-14-100-A 9V Battery

1. Press and release the Yellow Learn Button on the receiver. The red light next to the learn button will turn on and stay on for 5 seconds.
2. While the red LED at the receiver is on, press and hold the left button on the transmitter until the light on the receiver turns off.
3. Now release the transmitter button. Wait 1 second then press and release the transmitter button. The receiver button will blink 3 times indicating the transmitter is programmed

S-14-100-U 9V and 23A 12V Batteries

1. Press and hold the left transmitter button down. Red light on transmitter should be on.
2. On the receiver, push the P1 push-button until the green LED light comes on.
3. Release both buttons. Transmitter left button to receiver programming is complete.

Continued on next page…

S-14-100-375UT 9V and 3V Batteries

1. Start with your door/gate in closed position
2. On the transmitter – Press and hold the program button until the LED lights up
3. Press and release the SMART/LEARN button on your receiver

OR

Match the dipswitches on the transmitter to the existing receiver

Press and release the SW1 button until a click is heard from the opener, a light on the opener blinks, the door opens/closes, or a beep is heard from the operator (maximum 18 times).

OR press and release the SW1 button…

…8 times	Chamberlain * yellow button 2011-current
…3 times	Chamberlain * purple button 2005-current
…2 times	Chamberlain * orange button 1997-2005
…4 times	Chamberlain * green button 1993-1996
…5 times	Genie Overhead Door Intellicode 1995-current
…6 times	Genie Overhead Door Intellicode 2005-Current
…1 time	Linear Mega-Code 1997-Current
…7 times	Stanley Security Code 1998
…9 times	Wayne Dalton Rolling Code 372.5 MHz 1999-current
…14 times	Linear Multicode 10 position dip switch
…16 times	Stanley Multicode 10 position dipswitch
…18 times	Linear 8 position dip switch

*The LED on the universal transmitter MUST stop blinking between each press of the button. The code is accepted when a click or beep is heard, a light blinks or the door/gate activates.

4. Press the program button to exit programming mode. Programming is now complete.

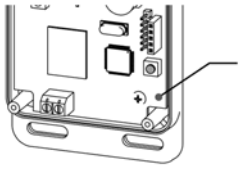
5. Enter a programmed code to activate your product. If the product does not activate, repeat the programming steps 3-6 again.

Ridge 2.0

S-14-500

Steps taken from *Ridge 2.0 Quick Start Guide, Rev C*. More info can be found at **securitybrandsinc.com/resources**.

6a Press and hold Programming button on transceiver circuit board for 3 seconds then let go.



6b Pair keypad with transceiver by entering sequence below on keypad.
(Make sure 9-V battery is connected to keypad)

1 2 5 1 → 9 → 1 *

Master Code (can be changed) — Channel (1 for A, 2 for B)

NOTE: Green arrow indicates "good" tone on keypad.

7 Add Access Code to Channel A.
(To add multiple codes, enter each of them before pressing pound key)

1 2 5 1 → 1 → ? ? ? ? → #

Master Code (can be changed) — Access Code (4 digits)

8 Make sure gate path is clear, then enter access code on keypad and confirm gate opens.
(If keypad locks up, repeat Step 6)

A Delete Code
(To delete multiple codes, enter each of them before pressing pound key)

1 2 5 1 → 2 → ? ? ? ? → #

Master Code (can be changed) — Code to Be Deleted (4 digits)

B Set Unique Keypad ID
(Allows multiple keypads and transceivers to be used. If Keypad ID is changed, keypad and transceiver must be paired again.)

1 2 5 1 → 9 → 5 → ? ? ? ? → #

Master Code (can be changed) — Unique Keypad ID (4 digits)

C More programming commands

NOTE: Green arrow indicates "good" tone on keypad.

Change Master Code

1 2 5 1 → 3 → ? ? ? ? → #

Current Master Code (if unchanged) — New Master Code (4 digits)

Add Latch Code

1 2 5 1 → 5 → 1 → ? ? ? ? → #

Master Code (can be changed) — Channel (1 for A, 2 for B) — Latch Code (4 digits)

One-Time-Use Code (Channel A ONLY)

1 2 5 1 → 8 → ? ? ? ? → ? → #

Master Code (can be changed) — One-Time-Use Code (4 digits) — # of Uses (1–9)

Add Access Code to Channel B

(To add multiple codes, enter each of them before pressing pound key)

1 2 5 1 → 7 → ? ? ? ? → #

Master Code (can be changed) — Access Code (4 digits)

Delete All Codes (Cannot Be Undone)

1 2 5 1 → 0 → 1 2 5 1 → Keypad will beep while erasing memory and sound "good" tone when complete.

Master Code (can be changed) — Master Code Again

Change Relay Output Time

1 2 5 1 → 6 → 1 → ? ? ? → #

Master Code (can be changed) — Channel (1 for A, 2 for B) — Seconds (000–999)

Three Strikes, You're Out

(Locks keypad and sounds alarm after three incorrect code entries)

Check Status

1 2 5 1 → 4 → 2 → 🔊 → #

Master Code (can be changed) — Audible Tone (On: 1 beep; Off: 2 beeps)

Toggle On or Off

1 2 5 1 → 4 → 2 → 🔊 → 1 2 5 1 → #

Master Code (can be changed) — Audible Tone (On: 1 beep; Off: 2 beeps) — Master Code (can be changed)

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