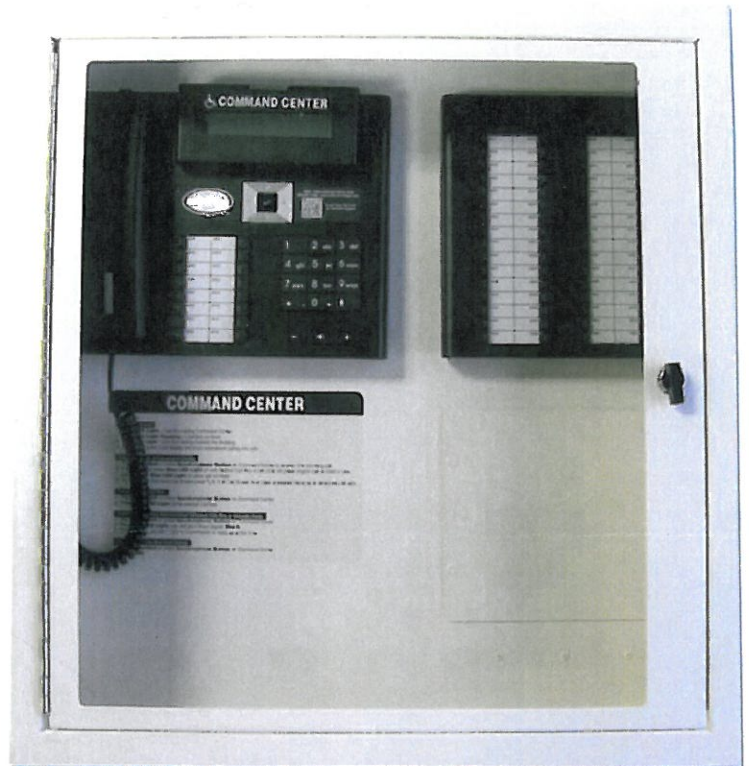


AlphaRefuge TM

2400 Series

Installation & Operations Manual



Refuge Command Center



Made in the USA

AWD162 Rev. 1 (03/2012)

Installation

1. Hang the Command Center cabinet on the wall
2. Mount the Termination Module onto the wall
3. Plug the Uninterruptable Power Supply RP7700104 into a 120 VAC power outlet
4. Plug the Termination Module Power Outlet into the RP7700104
5. Connect the Command Center to the Termination Module
 - A. The Command Center connects to Card 1, Port 5 of the Termination Module (see page 6)
 - B. Use the Blue and White/Blue Striped Wiring in Cable 5 to make the connection
 - C. Cable 5 is marked by a Light Blue band
 - D. If additional wire needs to be added to the Cable 5 harness to connect the Command Center to the Termination Module, use a single pair 22 or 24 gauge cable.
*Note: The maximum cable length to the Command Center is 6200' for 22 GA cable and 3900' for 24 GA cable.
6. Connecting Phones to the Termination Module
 - A. Phones connect to the Termination Module via the special wiring harnesses
 - B. Plug the RJ45 connectors of the wiring harness into the ports of the Module following the charts on Diagrams 2 through 4 (see page 6-8) (the number of ports on the Module will depend on the Phones needed for your install)
 - C. Wire the Phones to single pair 22 or 24 gauge cabling
 - D. If utilizing our 2400 series phones, you will connect one phone per single pair.
If utilizing our 2100 series phones, you can connect up to (10) phones per single pair.
 - E. Connect the cabling to the Termination Module wiring harness following Diagrams 2 through 4 for proper port numbering and color coding
 - F. For Example: Phone or Phone Group 1 should connect to Port 1 via the Cable 1 harness.
Cable 1 is marked with a Dark Blue band. The connection will be made through the Blue and Blue/White wiring in Cable 1
*Note: The maximum cable length to Phones is 112,500' for 22 GA cable and 70,300' for 24 GA cable.
7. Turn on the RP7700104
8. Turn on the Termination Module

ALPHAREFUGE™ 2400 SERIES POWER CONSUMPTION		
REFUGE COMMAND Note: The first active phone adds 7.21w, each additional phone adds 4.46w	170mA	20.4w
PWRAPC Output: 600w @ 1000VA Battery: 24v, 12amp	166mA	19.92w
PWRAPC112 Output: 1920w @ 1920VA Battery: 24v, 15amp	870mA	104.4w

Command Processor Programming

*Note: Programming can be done from any extension utilizing any standard analog telephone. To program the Command Center, you must connect a separate external handset style phone. Programming cannot be done from the Command Center handset.

Programming External Phone Numbers

The unit is pre-programmed to allow 800, 866, 877 & 888 numbers.

To program the unit for all other numbers:

1. Enter Programming mode
 - A. Dial 1#91 1234
2. Program toll allowed numbers
 - A. 4302 01100 (phone no.) #*
 - B. 4302 01101 (phone no.) #*
 - C. Etc.
3. Exit programming – Dial 00

Programming Time Zone

1. Enter programming mode
 - A. Dial 1#91 1234
2. 1002 (time zone code)

Eastern	111
Central	112
Mountain	113
Pacific	114
3. Exit programming – Dial 00

Programming Month – Day – Year

1. Enter programming mode
 - A. Dial 1#91 1234
2. 1001 (Month – Day- Year)
Example: 1001 02152011 (February 15 2011)
3. Exit Programming – Dial 00

Programming Time

1. Enter programming mode
 - A. Dial 1#91 1234
2. 1003 (Hours – Min – Sec)
Example: 1003 143000 (2:30 p.m.)
3. Exit Programming Dial 00

Phone Programming

Phone Calls the Command Center

1. For the Phone to call the Command Center, it must be programmed to dial 3001
2. Follow the directions that came with the Phone to program Memory Location 1 to dial 3001

Phone Calls a Number Outside of the Building

1. For the Phone to call a number outside the building, it must be programmed to first dial 9, Pause, Pause then the phone number
2. Follow the directions that came with the Phone to program Memory Location 1 to dial 9, Pause, Pause then digits of the outside phone number

Phone Calls the Command Center First then a Number Outside of the Building

1. The Phone can be programmed to call the Command Center first and if that call is not answered, call an outside number.
2. Follow the directions that came with the Phone to program Memory Location 1 to dial 3001.
3. Then program Memory Location 2 to dial 9, Pause, Pause then the digits of the outside phone number.

Phone Location Message

1. When programming the Phone to play a location message, it is recommended that two pauses be added to the end of the programmed dialed number.

For example: For dialing the Command Center, program the Phone to dial 3001, Pause, Pause

Command Center Operating Instructions

Indicator Status

1. **Blue LED Light** – Phone calling Command Center
2. **Blue LED Light Flashing** – Phone is on Hold
3. **Red LED Light** – Phone calling Outside the building
4. Command Center LCD display will show extensions calling into unit

Answering Call at Command Center

1. Pick up **Handset** or press **Speakerphone Button** on Command Center to answer first incoming call
2. If multiple calls, press **Blue LED Light** of next desired Phone to talk (this will place original call on Hold or you can press the **Blue LED Light** to place call on Hold)
3. To disconnect individual Phones press *, #. If all Phones have been answered Hang Up to disconnect all calls

Calling into a Phone

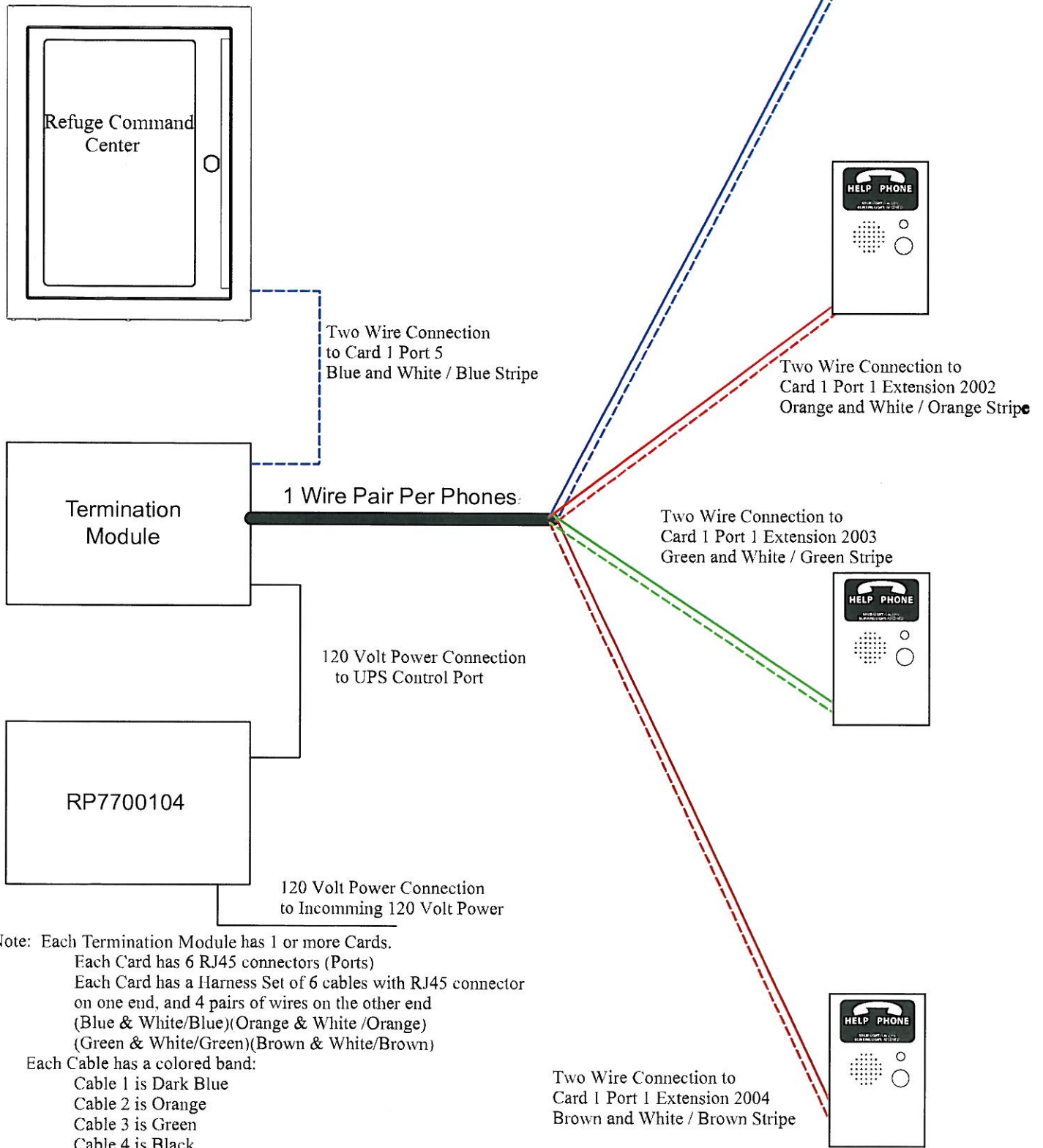
1. Pick up **Handset** or press **Speakerphone Button** on Command Center
2. Press **Blue LED Light** of the desired Phone

Joining an Existing Conversation between Phone & an Outside Party

1. Pick up **Handset** or press **Speakerphone Button** on Command Center
2. Press **Red LED Light** of the desired Phone, you will get a busy signal, **Dial 5**
3. Outside Party can either stay in conversation or hang up at this time

Call the Last Phone that Dialed the Command Center

1. Pick up **Handset** or press **Speakerphone Button** on Command Center
2. **Dial 1092**



Note: Each Termination Module has 1 or more Cards.
 Each Card has 6 RJ45 connectors (Ports)
 Each Card has a Harness Set of 6 cables with RJ45 connector on one end, and 4 pairs of wires on the other end
 (Blue & White/Blue)(Orange & White /Orange)
 (Green & White/Green)(Brown & White/Brown)
 Each Cable has a colored band:
 Cable 1 is Dark Blue
 Cable 2 is Orange
 Cable 3 is Green
 Cable 4 is Black
 Cable 5 is Light Blue
 Cable 6 is Red

Command Center Card 1 (16 Unit)

Connector	Color	Extension Number
RJ45 - 1 (Dk. Blue)	Blue - (Blue & White) Orange - (Orange & White) Green - (Green & White) Brown - (Brown & White)	2001 Connect to Red & Green of Grey Phone Cord to Phone(s) 2002 Connect to Red & Green of Grey Phone Cord to Phone(s) 2003 Connect to Red & Green of Grey Phone Cord to Phone(s) 2004 Connect to Red & Green of Grey Phone Cord to Phone(s) 2005 Connect to Red & Green of Grey Phone Cord to Phone(s) 2006 Connect to Red & Green of Grey Phone Cord to Phone(s) 2007 Connect to Red & Green of Grey Phone Cord to Phone(s) 2008 Connect to Red & Green of Grey Phone Cord to Phone(s) 2009 Connect to Red & Green of Grey Phone Cord to Phone(s) 2010 Connect to Red & Green of Grey Phone Cord to Phone(s) 2011 Connect to Red & Green of Grey Phone Cord to Phone(s) 2012 Connect to Red & Green of Grey Phone Cord to Phone(s) 2013 Connect to Red & Green of Grey Phone Cord to Phone(s) 2014 Connect to Red & Green of Grey Phone Cord to Phone(s) 2015 Connect to Red & Green of Grey Phone Cord to Phone(s) 2016 Connect to Red & Green of Grey Phone Cord to Phone(s)
RJ45 - 2 (Orange)	Blue - (Blue & White) Orange - (Orange & White) Green - (Green & White) Brown - (Brown & White)	AOR Command Center AOR Command 64 Button
RJ45 - 3 (Green)	Blue - (Blue & White) Orange - (Orange & White) Green - (Green & White) Brown - (Brown & White)	Telco Line 1 Telco Line 2
RJ45 - 4 (Black)	Blue - (Blue & White) Orange - (Orange & White) Green - (Green & White) Brown - (Brown & White)	
RJ45 - 5 (Lt. Blue)	Blue - (Blue & White) Orange - (Orange & White)	
RJ45 - 6 (Red)	Blue - (Blue & White) Orange - (Orange & White)	

Command Center

Card 2 (Units 17 - 36)

Connector	Color	Extension Number
RJ45 - 1 (Dk. Blue)	Blue - (Blue & White) Orange - (Orange & White) Green - (Green & White) Brown - (Brown & White)	2017 Connect to Red & Green of Grey Phone Cord to Phone(s) 2018 Connect to Red & Green of Grey Phone Cord to Phone(s) 2019 Connect to Red & Green of Grey Phone Cord to Phone(s) 2020 Connect to Red & Green of Grey Phone Cord to Phone(s)
RJ45 - 2 (Orange)	Blue - (Blue & White) Orange - (Orange & White) Green - (Green & White) Brown - (Brown & White)	2021 Connect to Red & Green of Grey Phone Cord to Phone(s) 2022 Connect to Red & Green of Grey Phone Cord to Phone(s) 2023 Connect to Red & Green of Grey Phone Cord to Phone(s) 2024 Connect to Red & Green of Grey Phone Cord to Phone(s)
RJ45 - 3 (Green)	Blue - (Blue & White) Orange - (Orange & White) Green - (Green & White) Brown - (Brown & White)	2025 Connect to Red & Green of Grey Phone Cord to Phone(s) 2026 Connect to Red & Green of Grey Phone Cord to Phone(s) 2027 Connect to Red & Green of Grey Phone Cord to Phone(s) 2028 Connect to Red & Green of Grey Phone Cord to Phone(s)
RJ45 - 4 (Black)	Blue - (Blue & White) Orange - (Orange & White) Green - (Green & White) Brown - (Brown & White)	2029 Connect to Red & Green of Grey Phone Cord to Phone(s) 2030 Connect to Red & Green of Grey Phone Cord to Phone(s) 2031 Connect to Red & Green of Grey Phone Cord to Phone(s) 2032 Connect to Red & Green of Grey Phone Cord to Phone(s)
RJ45 - 5 (Lt. Blue)	Blue - (Blue & White) Orange - (Orange & White)	2033 Connect to Red & Green of Grey Phone Cord to Phone(s) 2034 Connect to Red & Green of Grey Phone Cord to Phone(s)
RJ45 - 6 (Red)	Blue - (Blue & White) Orange - (Orange & White)	2035 Connect to Red & Green of Grey Phone Cord to Phone(s) 2036 Connect to Red & Green of Grey Phone Cord to Phone(s)

Command Center Card 3 (Units 37-56)

		Connector	Color	Extension Number
	L1			
	L2			
		RJ45 - 1 (Dk. Blue)	Blue - (Blue & White) Orange - (Orange & White) Green - (Green & White) Brown - (Brown & White)	2037 Connect to Red & Green of Grey Phone Cord to Phone (s) 2038 Connect to Red & Green of Grey Phone Cord to Phone (s) 2039 Connect to Red & Green of Grey Phone Cord to Phone (s) 2040 Connect to Red & Green of Grey Phone Cord to Phone (s)
		RJ45 - 2 (Orange)	Blue - (Blue & White) Orange - (Orange & White) Green - (Green & White) Brown - (Brown & White)	2041 Connect to Red & Green of Grey Phone Cord to Phone (s) 2042 Connect to Red & Green of Grey Phone Cord to Phone (s) 2043 Connect to Red & Green of Grey Phone Cord to Phone (s) 2044 Connect to Red & Green of Grey Phone Cord to Phone (s)
		RJ45 - 3 (Green)	Blue - (Blue & White) Orange - (Orange & White) Green - (Green & White) Brown - (Brown & White)	2045 Connect to Red & Green of Grey Phone Cord to Phone (s) 2046 Connect to Red & Green of Grey Phone Cord to Phone (s) 2047 Connect to Red & Green of Grey Phone Cord to Phone (s) 2048 Connect to Red & Green of Grey Phone Cord to Phone (s)
		RJ45 - 4 (Black)	Blue - (Blue & White) Orange - (Orange & White) Green - (Green & White) Brown - (Brown & White)	2049 Connect to Red & Green of Grey Phone Cord to Phone (s) 2050 Connect to Red & Green of Grey Phone Cord to Phone (s) 2051 Connect to Red & Green of Grey Phone Cord to Phone (s) 2052 Connect to Red & Green of Grey Phone Cord to Phone (s)
		RJ45 - 5 (Lt. Blue)	Blue - (Blue & White) Orange - (Orange & White)	2053 Connect to Red & Green of Grey Phone Cord to Phone (s) 2054 Connect to Red & Green of Grey Phone Cord to Phone (s)
	RJ45 - 6 (Red)	Blue - (Blue & White) Orange - (Orange & White)	2055 Connect to Red & Green of Grey Phone Cord to Phone (s) 2056 Connect to Red & Green of Grey Phone Cord to Phone (s)	