

alphaBLUELIGHT



FIGURE 1: FRONT & REAR VIEWS

AlphaBlueLight[™] Emergency Towers Installation & Operations Manual

FEATURES

- ADA Compliant (hands free operation)
- LED call status indicator
- Powder coated steel construction inside and out
- Aluminum access panels powder coated inside and out
- Weather and vandal resistant
- Blue beacon and strobe with photocell
- Strobe turns on upon phone activation
- Recessed illuminated faceplate
- Internal anchor base plate
- Ability to program up to 5 emergency numbers*
- Remote or on-site programmable**
- Panels secured with security screws
- Security Torx bit provided to access panels

*Not applicable for 2-way radio application **Not applicable for 2-way radio, cellular, or 900mHz application



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Safety Guidlines

- Save these instructions. This manual contains important instructions that will assist you during installation and maintenance.
- Installation and maintenance should only be performed by qualified electricians.
- Do not touch uninsulated phone wires or terminals unless the phone line has been disconnected at the network interface.
- Do not install phone during extreme weather conditions.
- Be careful of finished surfaces during transport and installation to avoid damaging the finish.
- It is recommended a minimum of 2 people perform installation.
- Keep all the components secure and protected during storage.

Tower Site Preparation Instructions

- 1. Dig a 3' by 3' square "pad" that is a minimum of 10-12" deep
- 2. Pour concrete a minimum of 10" deep and 3' by 3' square
- 3. Insert the $3/4'' \ge 12''$ galvanized rods per mounting template provided
- 4. A minimum 2" of thread must be exposed above level of concrete
- 5. Let concrete set for a minimum of 48 hours to cure

Installation Requirements

Item	Description	
Concrete	Enough for 10" Deep, 3' square slab	
Mounting Hardware Kit	ABLTMHE (Existing Slab) or ABLTMHN (New Slab)	
#1 Phillips Screwdriver	-	
1/4" Driver	-	
Security Torx Bit	Provided by Alpha. For access panels 2, 3 and 4.	
Adjustable Wrench		
1/4" Spanner Adapter for 1/4" Driver	Provided by Alpha. For access panel 1.	
Analog Phone Line	* If Using 900mHz or Land Line	
Phone Cable	* If Using 900mHz or Land Line	

Tower Dimensions

Height	9 ft.
Width	10.75 in.
Depth	6 in.
Steel Thickness	11 Gauge
Weight	167 lbs.

Mounting Hardware

Part #	Description	Quantity
ABLMHN (New Pad)	Anchors	4
	3/4" X 13" Galvanized Anchor Bolts	4
	3/4" Flat Washers	12
	3/4" Hex Nuts	4
	3/4" SAE Washers	4
	Split Lock Washers	4
ABLMHE (Existing Pad)	Anchors	4
	3/4" X 4" Galvanized Anchor Bolts	4
	Setting Tool	1
	3/4" Flat Washers	8
	Split Lock Washers	4

Tower Installation

- 1. Lay Tower on its side with the base next to the concrete pad
- 2. Open Lower Access Panel 4 on back of Tower (See Figure 1)
- 3. Feed the electrical and phone wires in the conduit into the Tower base through the 4" hole
- 4. Align the Tower mounting holes with the four 3/4" galvanized rods and lift on to the concrete slab
- 5. Put a lock washer on each rod along with a nut and secure tightly

Connecting the Electric Lines

- 1. Locate the black (positive) and white (negative) wires that exit the NEMA 4 box in the Tower
- 2. Connect the electrical wires from the conduit to the wires in the Tower using the waterproof wire nuts located on the wires

Note: Alpha offers 120V, 277V, or 480V as power options. Power preference should be disclosed at point of sale and corresponding transformer will be installed in Tower.

Connecting the Phone and Turning On the Electric Power

- 1. Locate the gray phone cable coming out of the NEMA 4 box
- 2. If using an analog phone line for communication, connect tip and ring from phone line run through conduit to red and green phone cable coming out of the NEMA 4 box (Note: If using a cellular or 900mHz, phone line should already be connected within Tower).
- 3. Turn on the electrical power

Communication Options

Land Line

To connect your analog phone line to the Emergency Tower:

- 1. Open Access Panel 3 (Figure 1) using the security torx bit to remove the security screws.
- 2. Locate the gray phone cable coming out of the NEMA box.
- 3. Connect the gray phone cable to the phone cable that was run through the conduit either by connecting the modular jack or the Red and Green wires.

GSM Cellular

- 1. Open Access Panel 2 (See Figure 1) using security torx bit to remove security screws.
- 2. Remove the cover of the NEMA 4 enclosure.
- 3. Locate the Cellular Module inside the enclosure.
- 4. When the "PWR", "RDY" and "NW" lights on the front of the unit are illuminated, unit is ready.
- 5. Verify Phone is plugged into the FXS port on Cellular Module.

NOTE: If the Sim Card is not provided to Alpha at time of purchase, an active Sim Card will need to be installed into Sim Card slot in cellular unit. When installing Sim Card, disconnect power from cellular unit, install Sim Card in Sim Card slot, then reapply power.

CDMA Cellular

- 1. Open Access Panel 2 (See Figure 1) using security torx bit to remove security screws.
- 2. Remove the cover of the NEMA 4 enclosure.
- 3. Locate the Cellular Module inside the enclosure.
- 4. When "Power", "Signal Strength", and ""Service Indicator" lights are all illuminated solid, unit is ready.
- 5. Verify Phone is plugged into the phone port on Cellular Module.

2-Way Radio

The 2-way radio phone can both transmit and receive voice communications. Our 2-way radios are fixed in the Tower and must be programmed to the specifics of the 2-way system in use within the facility or campus. The 2-way radio is programmed at the factory using customer provided information (Frequency, Squelch code, and narrow or wide bandwidth). The antenna is installed and tuned at the factory. Towers using 2-way radio are **not** ADA compliant (the button must be pushed and held to talk and let go to listen).

NOTE: Emergency Towers using 2-way radios are not programmable. Sections in this manual on Programming the Phone do not apply.

Adjusting the Tower Volume for 2-Way Radio

- 1. If the volume of the Tower needs to be adjusted, remove Access Panel 3 located on the back of the Tower (Figure 1).
- 2. Open the NEMA box to access the radio. Turn the radio volume control up or down to adjust the volume.
- 3. Close the NEMA box and reattach Access Panel 3.

<u>900 Mhz</u>

Each Tower includes (2) 900 mHz units, 1 Remote Station, and 1 Base Station. The Remote Station is already installed in the Tower.

- 1. Locate the 900 mHz unit with Base Station labeled on the bottom.
- 2. Screw black antenna into back of 900 mHz Base Station.
- 3. Plug dedicated analog phone line or analog extension off of a PBX system into the port labeled "Line".
- 4. Connect Power Cable included with unit into DC input on Base Station and a 120vac outlet.
- 5. Test units by taking an analog phone and plugging it into the "Line" Port on Remote Station installed in the Tower. There should be a dial tone and you should be able to place a call out.

6. Verify Phone is plugged into "Tel" Port on Remote Station. Phone is now ready for programming. **NOTE:** If installing multiple 900 mHz units, please put a minimum of 3 feet between each Tower. Connect one unit at a time, test, and then continue adding one unit and testing until all units are ready and functional.

Programming the Phone (Cont'd)

- 1. You can program the phone on-site or remotely. Note: Cellular and 900mHz applications cannot be remotely programmed.
- 2. If programming on-site, open back access panel 3 located directly behind the front stainless steel face plate. Use the #10 spanner bit provided to remove the 6 security screws.
- 3. Remove the cover of the NEMA 4 enclosure by loosening the 4 corner screws.

On-Site Programming

Step 1. To Begin Program Mode A. Press Enter

Step 2. To Program Emergency Numbers

A. Press 1, Enter, (phone number), Stop Note: Press 2-5 in step 2A for Emergency Numbers 2-5 as needed

Step 3. To Program Location Message

A. To turn on message Press 1, 3, Enter, 2

- B. Press 6, Record (speak message) Stop (to replay message Press 6, Play)
- C. For no message Press 1, 3, Enter, 0

Step 4. To Program Auto Disconnect Time (Default is 5 minutes, lowest interval is 1 minute)

A. Press 8, Enter, (3 Digit number in minutes) Ex: 2 minutes = 002

Step 5. To Exit Program Mode

A. Press Stop for 3 seconds

Remote Programming

Step 1. To Begin Program Mode

A. Call into phone by dialing the number of the tower

- B. After 1st simulated ring Press #, # (Wait for 4 tones)
- C. Key in security code (Default is 1111) (Wait for confirmation tones)

Step 2. To Program Emergency Numbers

A. Press 1, *, (Phone number), *, # (Wait for confirmation tones) Note: Emergency numbers (2-5) Repeat Step 2A pressing (2-5) as needed

Step 3. To Program Location Message

- A. To turn on message Press 1, 3, *, 2 (Wait for confirmation tones)
- B. Press 6, *, (Speak message) #, *, # (Wait for confirmation tones)
 - a. To replay message press 6, # (Wait for confirmation tones)

C. For NO message press 1, 3, *, 0 (Wait for confirmation tones)

Step 4. To Program Auto Disconnect Time (Default is 5 minutes, lowest interval is 1 minute)

A. Press 8, *, (3 Digit number in minutes) Ex: 2 minutes = 002

Step 5. To Exit Program Mode

A. Press *, #, 0 (You will hear a beep, beep) *, # (You will hear a buzz)



Testing The Phone

Push the silver emergency button on front of the Tower

	Yes	No
Do you hear a dial tone?		
Does the Strobe start flashing immediately when button is pushed?		
Does red LED become a solid light when you push the button?		
Did the red LED flash and a short time after (15-20 seconds) the called party started talking to you? (Delay is due to phone telling other party your location via the "Location Message")		
Can you hear the other party clearly? (If no, see "Adjust Speaker" below)		
Can the other party hear you clearly? (If no, see "Adjust Microphone" below)		
When the party you called hangs up, does the strobe stop?		
If you have answered YES to all questions, you have successfully installed and tested your new emergency phone. If you answer NO to any question, proceed to the Troubleshooting Section.		

Adjusting The Volume

If the volume is too low or high, adjust it by referring to the diagram and instructions below. **Note:** Refer to the instructions under "Programming the Phone" to access the circuit board.



Adjusting The Microphone

If the person you are calling reports your voice is not loud enough, increase the Microphone Sensitivity by adjusting VR2 1/4 turn clockwise (requires a small Phillips screwdriver).

Adjusting The Speaker

If the voice of the person you call is not loud enough in the emergency phone speaker, increase the volume by adjusting VR1 1/4 turn clockwise. Reinstall the cover on the NEMA enclosure and secure the rear access panel.

Suggested Ongoing Testing of the Phone

We recommend that the Emergency Tower be tested and maintained on a regular basis to ensure proper operation. For testing, follow the procedure outlined in "Testing of the Phone".

Troubleshooting

Problem	Possible Cause & Fixes
No dial tone when the button is pushed:	 Check to make sure the phone line is connected to SmartPhone board Verify dial tone and voltage on phone line going into unit
Audio is low from the speaker:	 Speaker control needs to be adjusted. Go to "Speaker Adjustment" on page 9. Make sure the speaker holes are not blocked
Audio is distorted from the speaker:	 Speaker control needs to be adjusted. Go to "Speaker Adjustment" on page 9. Make sure there are no items touching the speaker inside the tower
When called party hangs up, strobe continues to flash:	 Phone company or phone system is not providing a disconnect signal. Contact the appropriate party to make sure the disconnect signal is provided.
When called party hangs up, busy signal heard through speaker:	 Phone company or phone system is not providing a disconnect signal Operator needs to press *, # to disconnect call Disconnect time on phone needs to be lowered, see page 8
Tower appears non- functional. Strobe does not flash and no audio is heard from speaker when button is pushed:	 Check to make sure phone line is connected from communication source Double check electrical connections and 120V supply to charging station Push button may be non-functional
LED by push button comes on and goes off right away:	 No dial tone or operating voltage from communication source Remove line from SmartPhone and connect to analog phone. Verify 2-way calling.

Wiring Diagram

