



Installation & Operations Manual



Emergency Pedestal Phone

- ***2100-PLL Landline 12v Pedestal***
- ***2100-PLC Cellular 12v Pedestal***



Made in the USA
2 Year Warranty

N56W24720 N. Corporate Circle • Sussex, WI 53089
800-451-1460 • www.rathcommunications.com

RP8500PLL
Ver. 8
04/21



Thank you for purchasing RATH's Pedestal Phone. We are the largest Emergency Communication Manufacturer in North America and have been in business for over 35 years.

We take great pride in our products, service, and support. Our Emergency Products are of the highest quality. Our experienced customer support teams are available to remotely assist with site preparation, installation, and maintenance. It is our sincere hope that your experience with us has and will continue to surpass your expectations.

Thank you for your business,

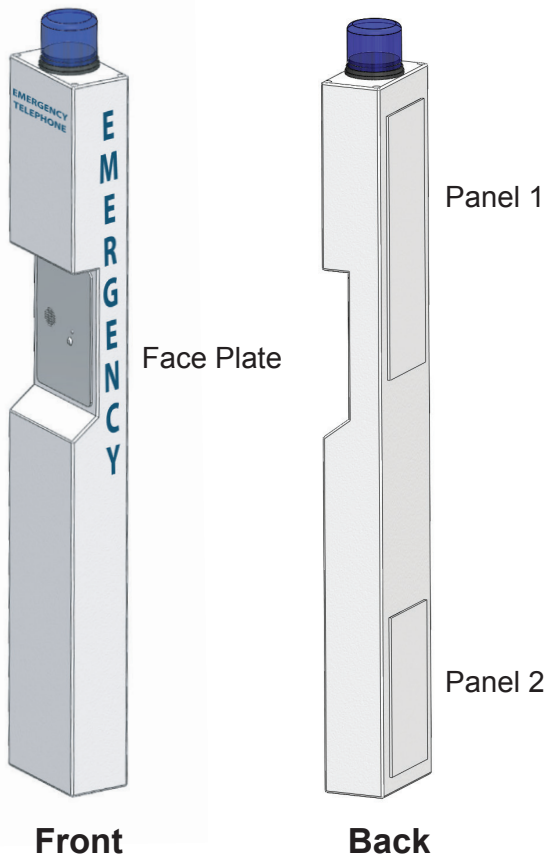
The RATH® Team

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Description

Figure 1: Front & Back View



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
- Strobe turns on upon phone activation
- Recessed illuminated face plate
- Internal anchor base plate
- Ability to program up to 5 emergency numbers
- Remote or on-site programmable*
- Panels secured with security screws
- Torx bit provided to access panels

*Not applicable for Cellular applications

Pedestal Specifications:

Height	5' 8"
Width	10-3/4"
Depth	6"
Thickness of Steel	11 Gauge
Weight	100 lbs.

Safety Guidelines

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

Pedestal Site Preparation Instructions

1. Concrete mounting pad should be at least 16" in depth and 2' in diameter.
2. Insert the 3/4" x 12" galvanized rods per mounting template provided.
3. A minimum 2" of thread must be exposed above level of concrete.
4. Let concrete set for a minimum of 48 hours to cure.

Items Needed for Installation

- Concrete for 16" deep, 2' diameter
- RATH® Kit 7476* or 7477**
- #1 Phillips screwdriver
- 1/4" driver
- Torx bit (provided to remove access panels)
- 1/4" spanner adapter (provided to remove access panels)
- Adjustable wrench
- Analog phone line (if using a Landline)
- Phone cable (if using a Landline)

***7476 (For New Concrete)**

- (4) 3/4" x 12" galvanized anchor bolts
- (12) 3/4" flat washers
- (4) 3/4" hex nuts
- (4) 3/4" SAE washers
- (4) split lock washers

****7477 (For Existing Concrete)**

- (4) anchors
- (4) 3/4" x 4" galvanized anchor bolts
- (1) setting tool
- (8) 3/4" flat washers
- (4) split lock washers

Pedestal Installation

1. Lay Pedestal on its side with the base next to the concrete pad.
2. Open lower Access Panel 2 on back of Pedestal (see Figure 1).
3. Feed the electrical and phone wires in the conduit into the Pedestal base through the 4" hole.
4. Align the Pedestal 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 behind Access Panel 1 (see Figure 1).
2. Connect the electrical wires from the 120v power supply to the wires in the Pedestal using the waterproof wire nuts located on the wires.

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 Cellular, phone line should already be connected within Pedestal.

3. Turn on the electrical power.

Communication

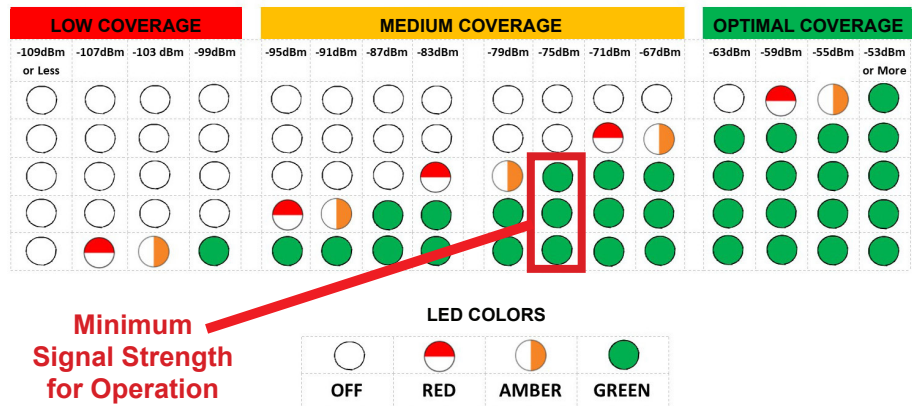
Landline:

To connect your analog phone line to the Pedestal:

1. Open Access Panel 1 (see Figure 1) using the torx bit to remove the security screws.
2. Locate the gray phone cable coming out of the NEMA 4 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.

LTE Cellular (Units Are Carrier Specific):

- 1. Open the Cellular Gateway by unscrewing the screw on the left side of the front cover with a Phillips screwdriver and gently pull up on the left side.
- 2. Insert standard size SIM card (25mm x 15mm) into J4 with the perforated edge first and the gold contact side facing downward. Push until you hear it click. If SIM card does not click into place, the wrong size SIM card is being used.
Note: Do NOT use a nano or micro size SIM card with an adapter. The adapter edge can catch and cause permanent damage.
- 3. Wait for the LED lights to turn on. Check the SIM LED to make sure it is amber colored. If it is flashing red, check that the SIM card has been inserted correctly and has an active 4G data/voice plan.
- 4. A signal strength test is recommended. Check the signal strength by using the built-in network signal strength scanner. To use the scanner function, turn on SW1 dipswitch 1 to ON (check that dipswitch 4 is also ON). When finished, turn SW1 dipswitch 1 back to “OFF”.



- 5. The RUN LED should change color to flashing green when the main power connection is made. If you see any other color, please consult the LED indication chart below.

	RUN LED FLASHES GREEN	POWER SUPPLY IS OK
	BAT LED IS ALWAYS ON	BATTERY IS OK
	SIM LED IS AMBER	DEVICE IS CONNECTED TO THE NETWORK
	COVERAGE LED IS GREEN OR AMBER	GOOD COVERAGE
	SLIC LED IS GREEN	DEVICE IS IN STANDBY

- 6. Place the lid back on the top of the Cellular Gateway and fasten the lid with the screw.

VoIP & Wi-Fi VoIP:
See additional manual.

Phone Programming

1. You can program the phone on-site or remotely.
Note: Cellular applications cannot be remotely programmed.
2. If programming on-site, open back Access Panel 1. 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 Pedestal
- B. After first 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)
 - i. To replay message Press **6, #** (Wait for confirmation tones)
- C. For NO message Press **1, 3, *, 0** (Wait for confirmation tones)

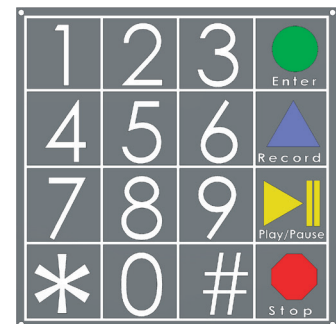
Step 4: To Program Auto Disconnect Time (Default is 5 minutes, lowest interval is 1 minute)

- 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)



Keypad

Phone Testing

Push the emergency button on the front of the Pedestal:

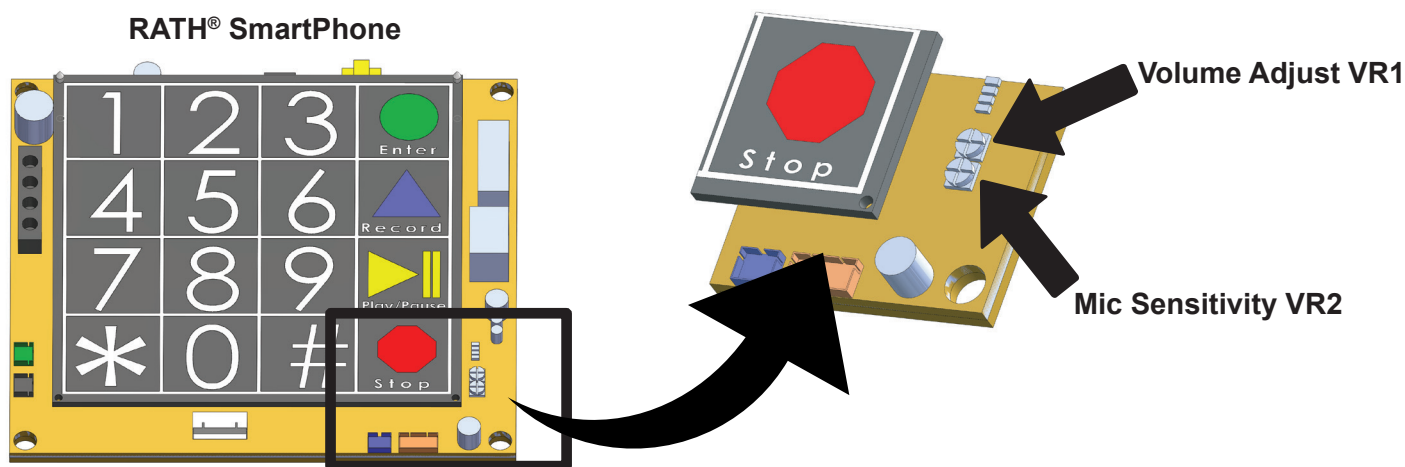
	Yes	No
Did you hear a dial tone?		
Did the strobe start flashing immediately after the button was pushed?		
Did the red LED become a solid light when you pushed the button?		
Did the red LED flash and approximately 15-20 seconds later the called party started talking to you? (Delay is due to the phone telling the other party your location via the "Location Message")		
Can you hear the other party clearly? (If not, see "Adjust Speaker" below)		
Can the other party hear you clearly? (If not, see "Adjust Microphone" below)		
When the party you called hangs up, does the strobe stop?		
<i>If you have answered YES to all questions, you have successfully installed and tested the phone. If you answer NO to any question, proceed to the Troubleshooting Section.</i>		

***RATH® recommends the Pedestal be tested on a regular basis to ensure proper operation.**

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 a 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 phone speaker, increase the volume by adjusting VR1 a 1/4 turn clockwise.

Troubleshooting

Problem	Possible Cause & Solutions
No dial tone when the button is pushed:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • Speaker control needs to be adjusted. Go to “Speaker Adjustment” on page 7. • Make sure the speaker holes are not blocked.
Audio is distorted from the speaker:	<ul style="list-style-type: none"> • Speaker control needs to be adjusted. Go to “Speaker Adjustment” on page 7. • Make sure there are no items touching the speaker inside Pedestal.
When the called party hangs up, strobe continues to flash:	<ul style="list-style-type: none"> • Phone company or phone system is not providing a disconnect signal. Contact the appropriate party to make sure the disconnect signal is provided.
When the called party hangs up, busy signal is heard through speaker:	<ul style="list-style-type: none"> • Phone company or phone system is not providing a disconnect signal. • Operator needs to press *, # to disconnect the call. • Disconnect time on phone needs to be lowered (see page 6).
Pedestal appears non-functional. Strobe does not flash and no audio is heard from the speaker when button is pushed:	<ul style="list-style-type: none"> • Check to make sure the phone line is connected from the communication source. • Check electrical connections and 12v supply to transformer. • Push button may be non-functional.
LED above push button comes on and goes off immediately:	<ul style="list-style-type: none"> • No dial tone or operating voltage from communication source. • Remove line from SmartPhone and connect to analog phone. Verify 2-way calling.

