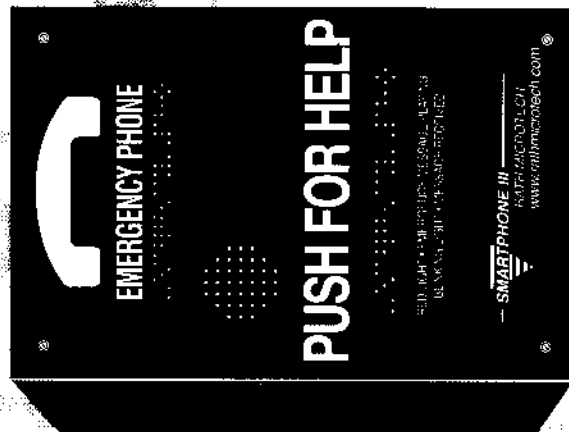
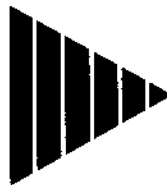


# SMARTPHONE III



INSTANT CONNECT  
TELEPHONES TO  
YOUR SELECTED  
NUMBER



## RATH MICROTECH

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## **SMARTPHONE III**

Models 2100-956, 2100-957, 2100-958  
**Elevator Emergency Phone**

Model 2100-984LF  
**Lift Emergency Phone**

Model 2100-847  
**Tower Emergency Phone**

Model 2100-986  
**Exterior Emergency Phone**

# GENERAL INFORMATION

SMARTPHONE III Models 2100-956, -957, -958, -984LF, -847, -986

## STANDARD FEATURES

- Hands free speaker phone. Completely automated operation.
- Automatic dialer has user programmable memory.
- Simple programming.
- Can be programmed without connection to 120 VAC or telephone line.
- Two number capability.
- *Call Tracker* location identification message. Recordable message. Up to 18 seconds.
- Detects called party's voice when they answer phone and causes all ADA features to operate automatically.
- Detects when called party hangs up and shuts off automatically if called party disconnect "WINK" is available in area. Called party can also use \* # to immediately terminate call.
- Designed for 120 VAC power, eliminates concerns about available telephone line voltage and current.
- Will work on both PBX and Central Office telephone lines.
- Programming error indicator.
- 120 VAC connection indicator.
- Battery back-up.
- Shallow profile allows phone to be installed in all existing telephone boxes without removal of programming keypad.
- Automatic answer.
- Audible ring.
- Variable conversation time settings.
- Remote programming.
- Install multiple phones on the same telephone line. Up to 5 phones per line.
- Built-in consolidator feature. Multiple phones on the same line, reach each phone individually.

## OPERATIONAL SPECIFICATIONS

1. User presses push button to activate phone, **RED LED** lights and automatic dialer dials the following sequence:
  - a. The first programmed number is dialed. If the first programmed number

- a. is busy it will immediately dial second programmed number. (See Programming Instructions for Two Number Operation, Step 4, Page 8.)
- b. If the first programmed number is not answered in six rings it will dial the second programmed number. (See Programming Instructions for Two Number Operation, Step 4, Page 8.)

- c. The *SMARTPHONE III* will continue to switch between the first and second programmed numbers until answered or default of 256 times.
2. When the *SMARTPHONE III* is answered it detects the called party's voice then automatically plays the *CALL TRACKER* location identification message twice. The **RED LED** on the face of the *SMARTPHONE III* will begin to flash. This lets the user know the call has been answered and that help is on the way. After the *CALL TRACKER* message has played twice, two-way conversation between caller and emergency service can begin. The *CALL TRACKER* feature can be disabled. (See Programming Instructions, Step 3, Page 8.)
  3. The star (\* #) button pressed twice can be used by the called party to replay the *CALL TRACKER* message.
  4. The called party can terminate the call by pressing the star (\*) and then the pound (#) button or by simply hanging up. The *SMARTPHONE III* shuts off when the called party hangs up if called party disconnect "WINK" is available in area.
  5. The *SMARTPHONE III* can be programmed to shut off automatically. (See Programming Instructions, Step 5, Page 9.)
  6. The *SMARTPHONE III* will **AUTO ANSWER** when called. Two-way conversation is immediately available. The calling party can press \* # to play the *CALL TRACKER* and press \* # to terminate the call.

## INSTALLATION INSTRUCTIONS

*SMARTPHONE III* can be programmed without connection to 120 VAC or telephone line. Back-up battery is charged when shipped but will discharge over time. Back-up battery will be fully charged 48 hours after *SMARTPHONE III* is installed on 120 VAC. To try programming without connection to 120 VAC connect the battery lead to J2 on the board and go to On Site Programming Instructions, start with Step 1C on Page 7.

An installation kit is enclosed with each *SMARTPHONE III*. These installation instructions and the installation kit will assist you when installing the *SMARTPHONE III* in an existing telephone enclosure. If you wish to flush mount the *SMARTPHONE III* contact Rath Microtech for further instructions.

### Installation Kit contents:

- 1 each drilling template
- 3 each #8 x 1/2" screws
- 4 each insulation displacement wire connectors #8 or #10 Spanner wrench (when needed)
- 4 each adhesive dots
- 1 each Allen wrench
- 2 each #4 x 3/8" slotted hex screws

## TO MOUNT ON WALL OF TELEPHONE ENCLOSURE

1. Place drilling template against back wall of elevator enclosure. Position properly and secure with enclosed adhesive dots.
2. Drill bit size is 1/8". Drill 3 mounting holes as shown on the drilling template in the elevator telephonic box. Remove drilling template.
3. Thread a screw in each mounting hole. Do not tighten completely.
4. Remove the *SMARTPHONE III* cover by loosening the 4 Allen screws located at the corners of the *SMARTPHONE III*. The *SMARTPHONE III* board is mounted on the cover.
5. A 7 foot telephone line cord with a modular plug at each end is provided. The *SMARTPHONE III* phone box has two 1/2" holes, one in the top of the box and one in the bottom of the box. These holes allow the telephone line cord and the transformer leads to be fed through the box to allow connection to the telephonic line and to the transformer.
6. Align keyhole cutouts on the *SMARTPHONE III* box with the screws you have mounted in telephone enclosure. Feed telephone line cord and transformer leads through hole in the top or remove knockout in the bottom of the box if this is the preferred location. Leave slack in the cord and in the leads.
7. Slide the *SMARTPHONE III* box in place and tighten screws. The box should be securely mounted in the telephone enclosure.

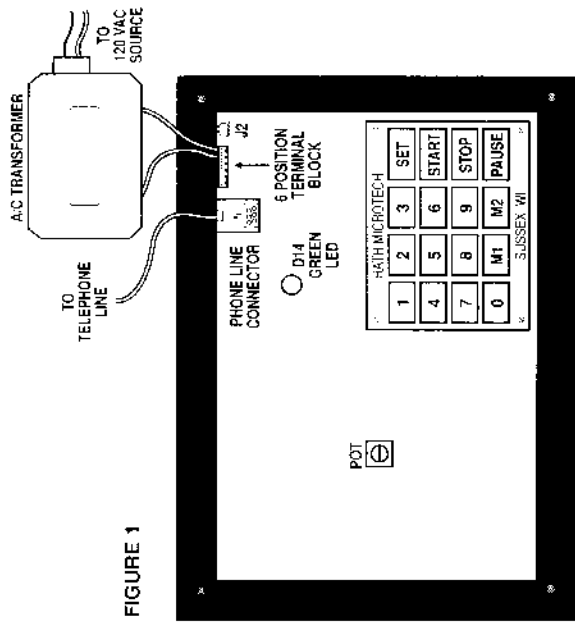


FIGURE 1

## CONNECTION TO 120 VAC POWER

1. The *SMARTPHONE III* requires 120 VAC power to operate as well as a Touch Tone telephone line. In the event of a power failure, the *SMARTPHONE III* also has a battery back-up which allows full operation of the *SMARTPHONE III* for a minimum of four hours. Separate 120 VAC feed not required. The battery lead must be connected to J2 on the board.

**NOTE:** For proper emergency operation during an AC failure, the *SMARTPHONE III* should be plugged into AC for 48 hours before installation to recharge back-up battery.

2. A UL approved transformer is provided with the *SMARTPHONE III*. The transformer requires 120 VAC and provides 10v 5va.
3. The white wire of the transformer should be connected to the neutral side of the 120 VAC power (usually the white wire) and the black wire of the transformer to the "hot" side of the 120 VAC power (usually the black wire).
4. Two mounting holes and 2 each #4 x 3/8" slotted hex screws are provided to secure transformer at a convenient location.
5. 120 VAC power has been properly connected when D14 (GREEN LED) is lit. The GREEN LED is located above the programming keypad on the *SMARTPHONE III* board. (See Figure 1, above.)

## CONNECTION TO THE TELEPHONE LINE

1. If you plan to use the modular line cord provided to connect the

*SMARTPHONE III* to the phone line, make sure line cord has been fed through the desired hole in the *SMARTPHONE III* box. Connect telephone line cord to the appropriate modular telephone jack. (See Figure 1, Page 4.)

FIGURE 2

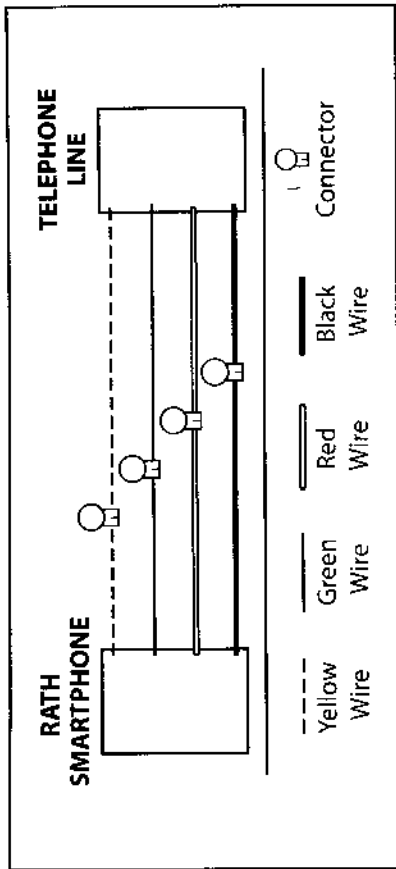
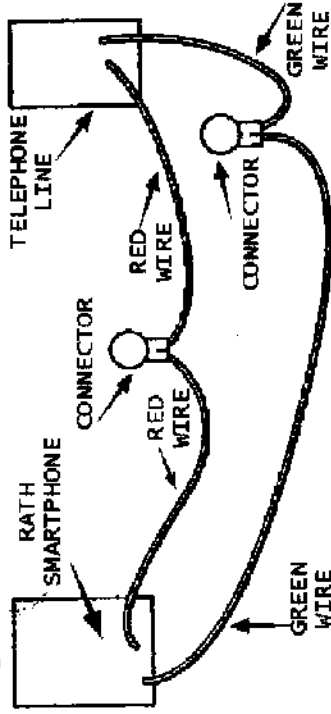


Figure 2A



If your installing the *Smartphone III* with a *SmartRescuePhone*, a 4 wire connection is required. (See Figure 2)

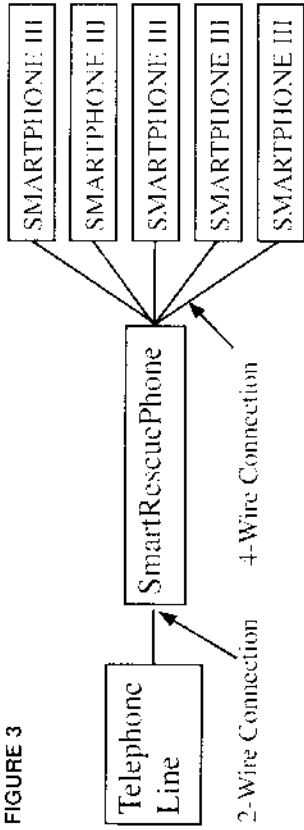
In a standard installation a 2 wire connection is required, red, green wires. (See Figure 2A)

**Note:** When using supplied wire connectors, DO NOT REMOVE INSULATION FROM INDIVIDUAL WIRES.

When *SMARTPHONE III* is properly connected to the telephone line and to 120 VAC you will hear dial tone when you activate the *SMARTPHONE III* and D14 (GREEN LED) is lit. (See Figure 1, Page 4)

## SMARTRESCUEPHONE INSTALLATION

FIGURE 3



(*SmartRescuePhone Model 2500-105*)

The *SmartRescuePhone* is an in-building rescue coordination phone that can be used with the *SMARTPHONE III*. Use the following instructions to install the *SmartRescuePhone*. The *SmartRescuePhone* is connected directly to the telephone line. Each *SMARTPHONE III* phone is connected to the *SmartRescuePhone*.

1. Power Requirement: 120 VAC power. Transformer provided.
2. Telephone line requirement: Analog, Touch Tone telephone line. Two-wire connection between Telephone Line and *SmartRescuePhone*. Four-wire connection between each *SMARTPHONE III* and the *SmartRescuePhone*.
3. The *SmartRescuePhone* should be installed in a central location that allows emergency personnel, in the building, to use it to access the elevator emergency phones and talk with each individual emergency phone.
4. The *SmartRescuePhone* is a wall mount unit. Use the template to mark the 3 mounting holes. Screws for mounting the *SmartRescuePhone* are also enclosed.
5. There are 2 key-shaped mounting holes in the back box. Secure the 2 screws, that correspond to these holes, into the wall. Position the mounting holes in the back box of the *SmartRescuePhone* over the screws, slide down and tighten screws. Secure to the wall by installing and rightening the screw in the mounting hole along the lower edge of the back box.
6. Plug the telephone into the jack marked Telephone Line. Plug each elevator emergency phone into the jack marked 1 - 5. The emergency phone from elevator car 1 should be plugged into the jack marked 1. The emergency phone from elevator car 2 should be plugged in the jack marked 2 and so on, until each emergency phone is connected to the *SmartRescuePhone*.
7. The *SmartRescuePhone* will support a maximum of 5 elevator emergency phones.
8. Plug the power transformer into the *SmartRescuePhone* and into the 120 VAC power supply.
9. The *SmartRescuePhone* is equipped with a back up battery that will provide 4 hours of full operation, in the event that 120 VAC power is lost.

# ON SITE PROGRAMMING INSTRUCTIONS

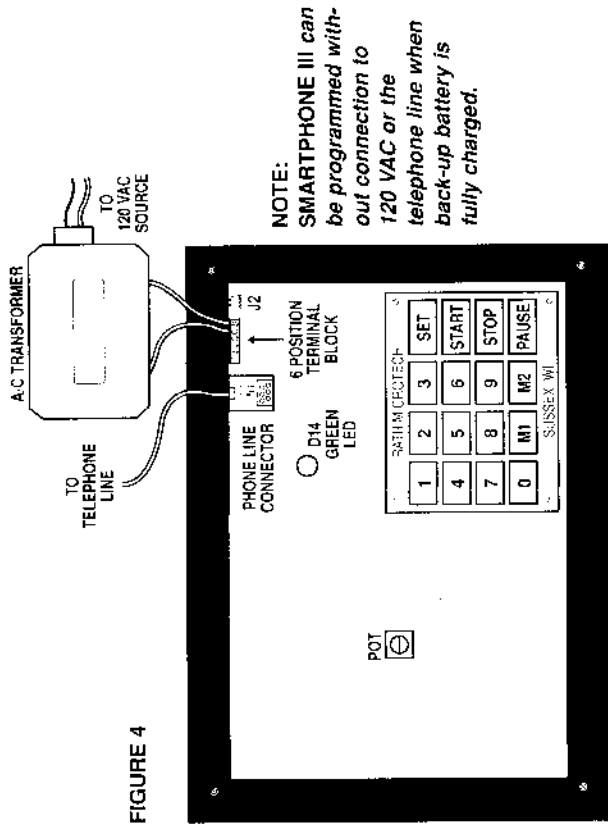


FIGURE 4

## STEP 1 TO BEGIN PROGRAMMING

- Connect telephone line cord to the appropriate modular telephone line jack. Connect transformer to 120 VAC. (See Figure 4 above.)
- Remove SMARTPHONE III cover by loosening the four Allen screws located at the corners of the phone. Carefully lift the cover away from the SMARTPHONE III box. The circuit board is mounted on the back of the SMARTPHONE III cover.
- The circuit board inside of the phone is equipped with a telephone keypad. During programming, the phone will buzz as each key is depressed.
- If an error is made in programming, the SMARTPHONE III will buzz three times.
- The phone will shut off if no key has been depressed for two minutes. It will shut off with a two tone salute.

## STEP 2 TO ENTER PROGRAM MODE

- To enter program mode press **START** and release. Will get deedoodee tone.

## STEP 3 TO PROGRAM CALL TRACKER

(You must be in the Program mode. See Step 2, above.)

- Program CALL TRACKER message by pressing **START**. Speak message. Press **STOP** at end of message. Will get deedoodee tone. (Message maximum length is 18 seconds)
- Press the **PAUSE** key to play back the CALL TRACKER message. Will get deedoodee tone when done.

**NOTE:** If you want to disable CALL TRACKER, press **START** then **STOP**. Will get deedoodee tone. No CALL TRACKER message will play during the phone operation. Press **PAUSE** to play back whatever is recorded in the CALL TRACKER message. You will hear a short "blip" tone if there is nothing recorded in the CALL TRACKER message.

## STEP 4 TO PROGRAM NUMBERS

(You must be in the Program mode. See Step 2, above.)

### A. STANDARD TELEPHONE LINE PROGRAMMING

- Program first number by pressing **SET** followed by the number to be dialed and then **M1** to store the number. Will get deedoodee tone.
- Program the second number by pressing **SET** followed by the number to be dialed and then **M2** to store the number. Will get deedoodee tone.
- If you wish to disable automatic dialing of second number, press **SET** followed by **M2**.

### B. SWITCHBOARD TELEPHONE LINE PROGRAMMING

**NOTE:** When installing the SMARTPHONE III on a switchboard telephone line be sure that the switchboard has an Uninterruptable Power Supply (UPS). If there is no UPS for the switchboard and a power failure occurs the telephone line will go down. Without a live telephone line the SMARTPHONE III cannot work and no emergency calls can be made until power is returned.

- If you are programming the SMARTPHONE III for use on a switchboard telephone line the programming procedure is slightly different.
- Program first number by pressing **SET** followed by the access code for an outside line (usually 8 or 9) follow by **PAUSE** key followed by the number to be dialed and then **M1** to store the number. Will get deedoodee tone.
- Program the second number by pressing **SET** followed by the access code for an outside line (usually 8 or 9) follow by **PAUSE** key followed by

the number to be dialed and then **M2** to store the number. Will get deedoodee tone.

4. To disable automatic dialing of second number press **SET** followed by **M2**.

#### C. RING-DOWN TELEPHONE LINE PROGRAMMING

1. Program **M1** by pressing **SET** followed by **PAUSE** followed by **M1**.
2. Program **M2** by pressing **SET** followed by **PAUSE** followed by **M2**.
3. Press **SET SET SET**. Will get deedoodee tone.
4. Press **M2**. Will get error tone then will get deedoodee tone.
5. Press **M1**. Will get deedoodee tone.
6. Press **5**. Will get beep. Press **0**. Will get deedoodee tone.
7. Press **STOP**. Will get deedoodee tone.

**NOTE:** To verify numbers programmed do the following. Press **M1**. The phone will beep each digit entered. For example, if the first three digits entered are 241 you will get beep-beep, beep-beep-beep, beep, etc. If you have programmed a **PAUSE** you will hear a long beep. After all the entered digits have beeped you will get the deedoodee tone. Press **M2** and the phone will beep out the number programmed as explained above.

#### STEP 5 TO PROGRAM THE TIMER

(You must be in the Program mode. See Step 2, Page 8.)

**NOTE:** The timer is the variable activation time setting or automatic shut-off. This is the amount of time the phone will function once activated and answered. If the **SMARTPHONE III** is set for three minutes, the phone will shut off three minutes after the phone is activated and answered or three minutes of the **SMARTPHONE III** has auto answered.

- A. The timer has been preset at the factory to 15 minutes. Program automatic time-out by pressing **SET** followed by **SET** again and then the time (1-999 minutes). Then press **SET** to store the time-out. Will get deedoodee tone.
- B. To verify timer setting, press **SET** followed by **SET** and then **PAUSE**. It will beep the timer setting followed by the deedoodee tone. For example, the factory setting of 15 minutes, after the keys were pressed as explained above, the phone will beep (for the first digit) and beep-beep-beep-beep-beep (for the second digit) followed by the deedoodee tone.

#### STEP 6 TO END PROGRAMMING

- A. Hold **STOP** until warble sounds, then release. If you get three low beeps, the **STOP** key was not held long enough. Press and hold again until warble sounds.
- B. Any feature such as **CALL TRACKER**, telephone numbers one and two, and the timer can be independently reprogrammed at any time.
- C. Test operation of **SMARTPHONE III** by pressing **PUSH FOR HELP** button on front panel.

#### STEP 7 TO ADJUST SPEAKER VOLUME

It is possible to adjust the speaker volume of the **SMARTPHONE III**. The phone is set for optimum volume when it leaves the factory. If you wish to increase or decrease the volume, follow these steps:

- A. Locate the white potentiometer (POT) on the circuit board. It is located left of the keypad. (See Figure 4, Page 7.)
- B. Gently insert a small screwdriver in slot of the potentiometer (POT).
- C. Slowly turn the potentiometer clockwise to reduce the **SMARTPHONE III** volume or counter-clockwise to increase the **SMARTPHONE III** volume. Stop turning the potentiometer when you reach the desired volume level.

## OPTIONAL PROGRAMMING

**NOTE:** For remote programming all phones have to be programmed with a security code. The security code can be any combination of four digits that is not 0000. Security code 0000 does not allow remote programming. The factory security code is set at 1111. We recommend you establish your own unique security code.

**NOTE:** For consolidator operation all phones have to be programmed with a unique ID number (1-5). The factory ID code is 0. This means all phones are set in a non-consolidator mode.

#### STEP 1 TO PROGRAM TELEPHONE ID NUMBER

- A. Press **START**. Will get deedoodee tone (you are now in Program mode).
- B. Press **SET, SET, SET**. Will get deedoodee tone.
- C. To establish ID number, press 1. Will hear beep. Press ID number desired, any digit 1-5. Will get deedoodee tone. **WARNING:** For consolidator operation one of the ID numbers must be 1.
- D. To find out which ID code is programmed do the following: Press 1. Wait for the beep. Press **PAUSE**. If the ID programmed is 2 you will hear beep-beep followed by deedoodee tone.

#### STEP 2 TO PROGRAM TELEPHONE SECURITY CODE

- A. To change the factory security code of 1111, press 2. Will hear beep. Press 4 digit code desired. **WARNING:** If you wish to use remote programming, the code must not be 0000. We recommend you keep the same security code for all units in all of your installations. Will get deedoodee tone.
- B. To find out which security code is programmed do the following: Press 2. Wait for the beep, then press **PAUSE**. It will beep out each digit of the security code followed by deedoodee tone.

#### STEP 3 TO EXIT OPTIONAL PROGRAMMING MODE

- A. To exit optional program mode, press **STOP** until deedoodee tone sounds. Then press and hold **STOP** until the warble sounds. If you get three low beeps

the **STOP** key was not held long enough. Press and hold **STOP** again until warble sounds.

**NOTE:** Record telephone ID code and security code on small label found under keypad.

## REMOTE PROGRAMMING

### STEP 1 REMOTE PROGRAMMING SEQUENCE

#### A. SMARTPHONE III Standard Remote Programming

1. Call number of phone or phones.
2. After you get the simulated ring, press the # key. Will hear long dedodedodedo tone.
3. Key in the security code (4 digits). Will hear deedeodeeooo tone. Wrong security code will terminate call.
4. Press 9 \* 0. Will hear tone. All phones will be ready to program.

See **Table A**, page 12, for programming menu.

5. Press 9 \* # to end programming.

#### B. SMARTPHONE III Consolidator Mode Remote Programming

1. Call number of phone or phones.
2. After you get the simulated ring, press the # key. Will hear long dedodedodedo tone.
3. Key in the security code (4 digits). Will hear deedeodeeooo tone. Wrong security code will terminate call.

4. Changing single phone or all in group.

#### A.) Single phone

1. After security code, press 9 \* 1. Will hear deedeodee tone. This will make phone with ID 1 ready to program.
2. See **Table A**, page 12, for programming menu.
3. Press 9 \* 2. Will hear deedeodee tone. You are now ready to program phone with ID 2. See **Table A**, page 12.

4. Continue this until you have programmed all in the group.

5. Press 9 \* # to end programming.

#### B.) Changing all phones in group

1. After security code, press 9 \* 0. This will make all phones ready to program.
2. See **Table A**, page 12, for programming menu.
3. Press 9 \* # to end programming.

TABLE A

1	#	(Enter phone number M1. * for pauses)	#	Deedeodee
1	*	Phone number M1 is played back in beeps		Deedeodee
2	#	(Enter phone number M2. * for pauses)	#	Deedeodee
2	*	Phone number M2 is played back in beeps		Deedeodee
3	#	(Enter timeout minutes)	#	Deedeodee
		<i>Factory set at 15 minutes</i>		
3	*	Timeout minutes played back in beeps		Deedeodee
4	#	Record Message # to stop		Deedeodee
4	*	Message is played back		Deedeodee
9	* #	Will terminate call		

## CONSOLIDATOR OPERATION

A. Dial the *SMARTPHONE III* telephone. All phones will automatically answer active.

1. Select Individual Phone
    - Press \* 1 (Phone #1)
    - Press \* 2 (Phone #2)
    - Press \* 3 (Phone #3)
    - Press \* 4 (Phone #4)
    - Press \* 5 (Phone #5)
  2. Select All Phones
    - Press \* 0
  3. Select all Phones (Page Mode)
    - Press \* 9
- Listen Mode only, in elevator*

## GENERAL OPERATION

- A. Replay *CALL TRACKER* message
  - Press \* \*
- B. Shut Phone Off Manually
  - Press \* #

## SMARTPHONE III DEFAULT SETTINGS

Default	Description	Setting
Timeout	Phone shuts off in this amount of time after activated and answered or after auto answer.	15 minutes

Telephone ID	Identification number of SMARTPHONE III. Default setting assumes that phone not installed on Party Line. See CONSOLIDATOR OPERATION for details on Party Line set-up.	0
Security Code	4 Digit code. To allow remote programming, must be set to code other than 0000. SMARTPHONE III answers itself automatically when called. SMARTPHONE III rings when called.	1111
Auto Answer	Amount of time SMARTPHONE III waits before dialing program number if dial tone not present.	ON
Ringer	Duration of programmable pause.	ON
Dial Delay	Number of rings before SMARTPHONE III hangs up and dials alternate program number or redials program number.	5 seconds
Dial Pause Length	Number of times SMARTPHONE III will redial program numbers if call rings busy or is not answered on first attempt.	1 second
Maximum Rings		6 rings
Maximum Calls		256 times

## TROUBLESHOOTING

When trouble is reported, refer to the following tips:

1. **Activate SMARTPHONE III by pressing push button. No dial tone heard. Ringing begins immediately. Called party answers but cannot talk with person in elevator. Called party hangs up.**
  - SMARTPHONE III is installed on a ring-down telephone line from the building switchboard system.
  - Use the following steps to reprogram the phone for ring-down telephone line operation.
    1. Press **START** to enter program mode. Will get deedoodee tone.
    2. Program **M1** by pressing **SET** followed by **PAUSE** followed by **M1**.
    3. Program **M2** by pressing **SET** followed by **PAUSE** followed by **M2**.
    4. Press **SET SET SET**. Will get deedoodee tone.
    5. Press **M2**. Will get error tone then will get deedoodee tone.
    6. Press **M1**. Will get deedoodee tone.

7. Press **5**. Will get beep. Press **0**. Will get deedoodee tone.
  8. Press **STOP**. Will get deedoodee tone.
  9. Press and hold **STOP** until warble sounds.
2. **CALL TRACKER message is recorded conversation or something other than the desired emergency message:**
- Record new **CALL TRACKER** message following the instructions on Page 8, STEP 3.
  - After recording the message press **PAUSE** to play back the recorded message. Will get deedoodee tone when done.
3. **You wish to delete the CALL TRACKER location identification message.**  
**Two-way conversation begins as soon as the emergency call is answered.**
- The American's with Disabilities Act (ADA) requires that emergency service personnel are able to identify the location of the emergency, even if the caller cannot speak. The **CALL TRACKER** location identification message meets this ADA requirement.
  - To delete the message: Press **START** to enter the program mode. Press **START** again. Immediately press **STOP**. Press **PAUSE** to play back whatever is recorded in the **CALL TRACKER** message. You will hear a short "blip" tone if there is nothing recorded in the **CALL TRACKER** message. Press and hold the **STOP** key until the warble sounds. You have exited the program mode.
  - If any message or conversation remains recorded repeat procedure detailed above.
4. **SMARTPHONE III is "dead", do not even hear dial tone:**
- Check to see if 120 VAC power is properly connected. D14 (**GREEN LED**) above the keypad should be lit.
  - Check telephone line to be sure it is operational. To check the telephone line: Unplug the SMARTPHONE III from the telephone line. Plug a standard phone set into the same line. If the standard phone is also "dead" the problem is with the phone line. If the standard phone works, the problem is with the SMARTPHONE III.
  - Contact your telephone company or switchboard vendor if the problem is with the phone line.
  - Contact **Rath Microtech** if the problem is with the SMARTPHONE III.
5. **SMARTPHONE III dials automatically but dial tone doesn't go away:**
- SMARTPHONE III is dialing in Touch Tone and is installed on a rotary telephone line.
  - Rotary dial telephone line accepts only rotary dial signals.
  - Touch Tone telephone line accepts rotary dial or Touch Tone signals.

- Telephone line can be converted to Touch Tone, contact your telephone company or switchboard vendor.

**5. SMARTPHONE III dials but you get an operator intercept or recording instead of being connected to the program number:**

- Check to make sure the phone is programmed correctly, the SMARTPHONE III must be programmed in the same way as you would dial the call manually (if you must dial 1, then program for 1; if you must dial the area code, then program the area code, etc.)
- Reprogram the SMARTPHONE III.

**6. SMARTPHONE III dials, but gets a busy signal after dialing only a couple digits:**

- SMARTPHONE III has been installed on a switchboard line and is not programmed to dial out from behind the switchboard to get an outside line.
- Reprogram the SMARTPHONE III to dial the appropriate access code to get an outside line (usually 8 or 9) + a pause for second dial tone + telephone number.
- Unit has been installed on a switchboard telephone line that does not allow outside calls. Contact your switchboard vendor.

**7. You hear dial tone when you activate the SMARTPHONE III but it does not dial automatically:**

- Visually inspect SMARTPHONE III for any damage.
- Follow Programming Instructions to reprogram memory.
- Troubleshooting assistance is available by calling **Rath Microtech Technical Support** toll free at **1-800-451-1460**, Ext. 3.

## WARRANTY AND REPAIR

1. Rath Microtech warrants parts and labor on all SMARTPHONE III's for a period of one year from the date of shipment. This warranty is in lieu of all other express warranties. Any act of vandalism to the SMARTPHONE III will void the warranty.
2. All repairs must be completed at our Sussex, Wisconsin factory. Please use the following procedure to return SMARTPHONE III for repair:  
Call **Rath Microtech Technical Support** Toll Free at **1-800-451-1460**, Ext. 3, to get a Return Authorization Number. No returns will be accepted without a Return Authorization Number.

Have model number, serial number and a description of the problem ready to give

to the Technical Support Representative. The model number and serial number may be found on the label on the inside cover of the SMARTPHONE III.

Package the SMARTPHONE III carefully and return to:

**RATH MICROTECH • W227 N6370 Sussex Road • Sussex, WI 53089**

## TECHNICAL SPECIFICATIONS

- Telephone Line and 120 VAC Powered
- Field Programmable
- Remote Programmable
- 31 Digit Dialer Memory
- On Hook Voltage - 48V-24V
- Off Hook Voltage - 48V-9.35V, 24V-7.45V
- Loop Current - 48V-43.2MA, 24V-38.5MA
- LED Specifications: 2VDC, 1/3 Watt
- Back-Up Battery Life = 5 yrs Replace after 5 years
- Back-Up Battery Active Operation 4 Hours
- Touch Tone Operation Only  
*Touch Tone is an AT&T Registered Trademark.*
- Analog Telephone Line Required
- Automatic Answer Feature
- Audible Ring
- Shut-Off Time: Programmable to 999 Minute
- Ring Equivalence (REN) 1.1B
- Maximum 5 ADA SMARTPHONE III's per Line
- Built-In Consolidator, Reach Individual Phone on the Same Phone Line
- Star (\*) and Pound (#) Buttons Should be Depressed at Least 1 Second
- SMARTPHONE III Works on All FCC Qualified Telephone Systems
- Box Dimensions: 8.15"H x 5.15"W x 2" D
- Overall Dimensions: 8 1/8"H x 5 1/8"W x 2 1/8"D

## FCC PART 68 INFORMATION

This equipment complies with Part 68 of the FCC rules. On the exterior housing of this equipment is a label that contains, among other information, the FCC registration number and Ringing Equivalence Number (REN) for this equipment. If requested, this information must be provided to the telephone company.

This equipment uses the following jack: RJ11

The REN is used to determine the quantity of devices which may be connected to the telephone line. Excessive REN's on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the REN's should not exceed five (5.0). To be certain of the number of devices that may be connected to the line, as determined by the total REN's, contact the telephone company to determine the maximum REN for the calling area.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. If advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations, or procedures that could affect the operation of the equipment. If this happens, the telephone company will provide advance notice in order for you to make the necessary modifications in order to maintain uninterrupted service.

If trouble is experienced with this equipment, please contact **Technical Support Center at RATH MICROTECH** Toll Free at **1-800-451-1460**, Ext. 3, for repair and warranty information. If the trouble is causing harm to the telephone network, the telephone company may request you to remove the equipment from the network until the problem is resolved. All repairs should be referred to the **Technical Support Center at RATH MICROTECH** Toll Free at **1-800-451-1460**, Ext. 3, to determine if phone needs to be returned.

This equipment cannot be used on telephone company provided coin service. Connection to Party Line service is subject to state tariffs.

This equipment is hearing-aid compatible.

**THIS EQUIPMENT HAS AN AUTOMATIC DIALER. THE FOLLOWING PROCEDURES MUST BE FOLLOWED:**

- When programming or making test calls to emergency numbers:  
Remain on the line and briefly explain to the dispatcher the reason for the call.
- Perform such activities in the off-peak hours, such as early morning or late evenings.

This equipment does not provide data operation.

# INDUSTRY CANADA CERTIFICATION INFORMATION

## CP-01, Issue 8, Part I, Section 14.1

**"Notice:** The industry Canada label identifies certified equipment. This certification means that the equipment meets safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by users to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user disconnect this equipment.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas.

**Caution:** Users should not attempt to make connections themselves, but should contact the appropriate electrical inspection authority, or electrician, as appropriate."

## CP-01, Issue 8, Part I, Section 14.2

**"Notice:** The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Numbers of all the devices does not exceed 5."

# GLOSSARY OF TERMS

## ADA

Americans with Disabilities Act. The ADA is federal civil rights legislation written and enacted to provide disabled people with access and accommodations equal or similar to those of the general public.

### Analog

A method of sending voice, video or data signals that is analogous to the original signal. Standard telephone lines in the home or business are analog.

### Auto Answer

When an incoming call is received, the *SMARTPHONE III* will answer the call and two-way conversation is established with the calling party.

### CALL TRACKER

This is the location identification message that can be programmed into the *SMARTPHONE III* at the site or remotely.

### Central Office Telephone Line

POTS or "Plain Old Telephone Service" is the basic single line access to the public switched network.

### Consolidator

This is the ability to access each phone that is wired to a single telephone line. With the *SMARTPHONE III* you will be able to call each *SMARTPHONE III* without a separate piece of equipment. Each phone will have its own ID. Install up to 5 *SMARTPHONE III*'s on the same telephone line.

### Digital

The voice, video, or data signals are encoded into a series of 0's and 1's. These are decoded at the receiving end. The *SMARTPHONE III* requires an analog telephone line.

### FCC

Federal Communication Commission. This is the government organization that regulates the telephone industry.

### PBX

Private Branch Exchange. A private phone system allowing phone calls within a business and to the outside world. To make a call on the public telephone network you usually have to dial 8 or 9 then the telephone number.

### Ring-Down

A Ring-Down telephone line automatically rings a phone when the originating phone goes off hook. The Ring-Down telephone line can be connected to a device which is connected to another phone, or a telephone number can be programmed into a PBX. The local telephone company can also program a telephone number.

### Template

This is a sheet of paper provided to mark mounting screw locations.

### Timer

*The timer is the variable activation time setting or automatic shut-off. This is the amount of time the phone will function once activated and answered. If the SMARTPHONE III is set for three minutes, the phone will shut off three minutes after the phone is activated and answered or three minutes after SMARTPHONE III has auto answered.*

### Touch Tone

A trademark owned by AT&T for the tone dialing. The *SMARTPHONE III* can only work on Touch Tone telephone lines.

### WINK

Most telephone companies provide a called party disconnect WINK. After the called party has hung up, the telephone company momentarily opens up the telephone line to the calling party. This turns the *SMARTPHONE III* off. If the *SMARTPHONE III* is installed on a PBX telephone line, the WINK only turns down the trunk between PBX and the telephone company.

### 120 VAC

The *SMARTPHONE III* requires 120 VAC to the transformer provided. 120 VAC is standard lighting voltage.

### SMARTPHONE III Quick Programming Instructions

Press **START** key (to enter program mode)

#### Program Telephone Number

Press **Set** key <telephone number> **M1**  
(memory #1)

Press **Set** key <telephone number> **M2**  
(memory #2)

#### Program Call Tracker (Location Message)

Press **Start** key

**Speak Message** - 18 seconds

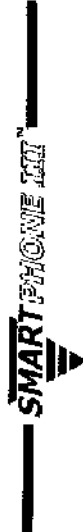
Press **Stop** key

Press **Pause** key to review message recorded

#### Exit Programming

Press and hold Stop key until warble sounds.

See Programming Booklet for Optional Programming



For assistance contact  
**RATH MICROTECH**  
Tech Support  
1-800-451-1460 Ext. 3

Part number RP8100081D