○ JANUS

Line Powered ADA Telephone User's Manual

PBX
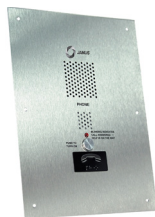

PNB   **PSM**   **PSS**   **PSL**

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If you have questions or problems, please call Janus technical support for assistance at 800-527-9156 or visit our website at www.avire-global.com.

Scan the QR code using your smart phone to connect to our Automated Programming System. (APS-Tel: 631-864-4759)

Installation

Box-Less Style (PNB)
1. Mount phone on the car station.
2. Attach red lens cap and bezel to ¼" hole on car station.
3. Insert LED into lens cap and plug wire into P6.
4. 2 LED versions – Red LED goes to "Call in Progress" (P6)
Green LED goes to "Alarm Received" (P5)
5. Attach emergency button leads to terminal block at P2 (EXT ON/OFF).
6. Attach phone line to terminal block at P1 (TELCO) or the P1A modular phone jack.

Box Style (PBX)
1. Mount back box into phone cabinet on car station.
2. Allow enough room at bottom for opening and removing phone cover.
3. Attach phone line to terminal block at P1 (TELCO) or the P1A modular phone jack.
4. Attach phone cover with screws provided.

Flush Mount Style (PSS/PSL)
1. Cut 5 x 9 inch hole for the phone.
2. Using the plate as a template, mark and drill holes for the mounting screws.
3. Attach phone line to terminal block at P1 (TELCO) or the P1A modular phone jack.
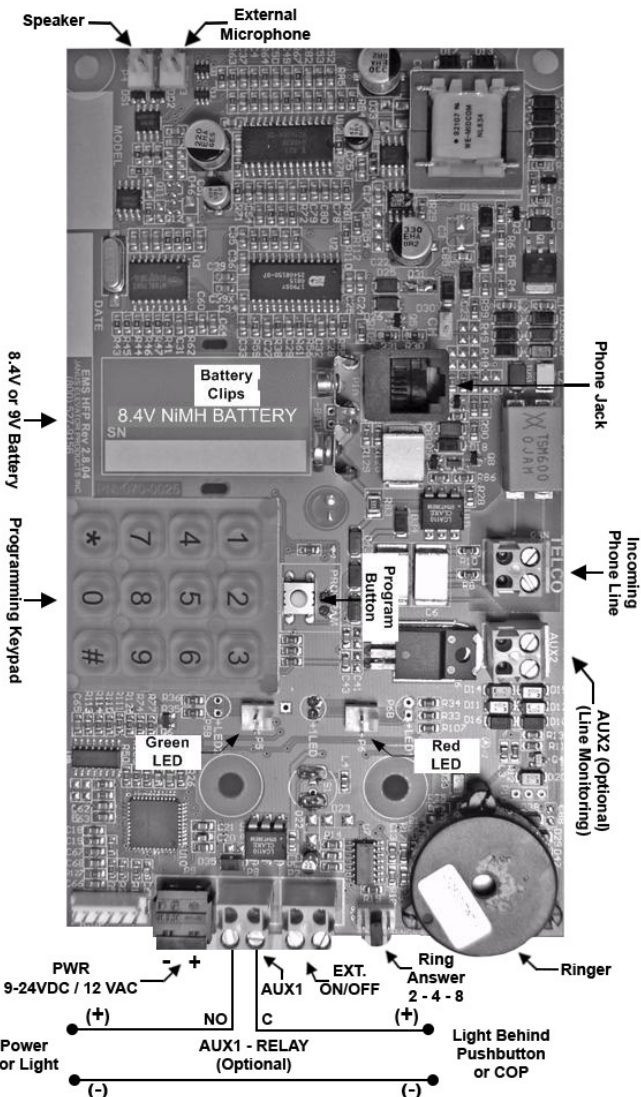**4.** Mount phone (screws not provided).

Surface Mount Style (PSM)
1. Use mounting plate as a template.
2. Attach mounting plate to wall.
3. Attach phone line to terminal block at P1 (TELCO) or the P1A modular phone jack.
4. Attach phone cover with screws provided.

NOTE: All style phones are phone line powered. If a battery is needed, attach an 8.4V NiMH or a Standard 9V-Alkaline battery to the Battery Clips on board (see Battery and Power Supply section for more information).

CAUTION: To reduce or eliminate any possible interference, it is highly recommended that the wiring used inside the traveling cable for the incoming phone is 20-22 AWG twisted shielded pair with the shield grounded at the elevator controller end only. Any terminations or splices between the elevator controller and the elevator phone should have the shield carried through the termination of splice and not grounded at that point.

PC Board Diagram

Speaker

External Microphone

8.4V or 9V Battery

Programming Keypad

Battery Clips

8.4V NiMH BATTERY
SN

Phone Jack

Program Button

Incoming Phone Line

AUX2 (Optional) (Line Monitoring)

Green LED

Red LED

Ring Answer 2 - 4 - 8

Ringer

PWR 9-24VDC / 12 VAC

AUX1

EXT. ON/OFF

Max 110V 1 Amp

Power For Light

AUX1 - RELAY (Optional)

NO

C

Light Behind Pushbutton or COP

(+)

(+)

(-)

(-)

Programming Set-Up Methods

There are two methods of setting up the hands-free elevator phone for programming. Select the one applicable to your situation as described below.

NOTE: The telephone line provided must be a touch-tone line.The phone can be programmed at any location and then installed in the elevator cab. The phone will retain its programming without the need for a battery.

Method A: Calling the elevator phone to program it.
1. From any touch tone phone, call the phone number to which the elevator phone is connected.
2. After four rings (OR if the "CALL" button is pressed) the elevator phone will turn on automatically and you will hear a diddle-diddle-diddle sound.
   NOTE: If there is more than one elevator phone on the same phone line you will need to have someone press the "CALL" button on each elevator phone, or disconnect the others, in order to program each phone.
3. Go to the "Programming Instructions" section.
4. After programming the phone, you should test it by pressing the "CALL" button. The test will ensure the phone is functioning correctly and as programmed.

Method B: Using the keypad on the board to program it.
1. Disconnect the phone line from the P1 connector (TELCO) or the P1A modular phone jack.
2. Connect a 9-volt battery to the battery clips on the board. (See diagram of phone board)
3. Wait 30 seconds and then press the "PROGRAM" button above the keypad.
4. Make sure the red light of the phone turns on. If it does not, go back to step 3 and start again.
5. The elevator phone will turn on and you will hear a diddle-diddle-diddle sound.
6. Go to the "Programming Instructions" section.
7. When you have completed the programming of the phone you can unplug the 9-volt battery.
8. After programming the phone, you should test it by pressing the "CALL" button. The test will assure the phone is functioning correctly and as programmed.

Programming Instructions

1. Choose programming setup method A or B.
2. Enter **# 94851** or **# 9000000** to enter programming mode. Listen for three beeps.
   NOTE: Enter touch tone digits slowly and deliberately.
   NOTE: Once you are in programming mode, you can perform any programming step in any sequence as long as you get three beeps after your programming entry.

3. Enter **# 0** (enter the first phone number to be programmed) *** #**. Listen for three beeps. **EXAMPLE: # 0 5551212 * #**.
NOTE: If you are on a phone line that requires a "9" or another digit to call the answering service, enter a **#** after the **9**. This will insert a four second pause. **EXAMPLE: # 09 5551212 * #**.
4. Enter **# 1** (enter second phone number to be programmed) *** #**. (Optional)
5. Enter **# 2** (enter third phone number to be programmed) *** #**. (Optional)
6. Enter **# 3** (enter fourth phone number to be programmed) *** #**. (Optional)
7. Enter **# 4** (ID Code) *** #**. (Optional)
8. Enter **# 7** and listen for the single beep. At the beep, record the location message by speaking into the touch tone phone handset or into the microphone of the HFP phone when using the keypad to program. Enter **0** to end. If you want to listen to the location message without changing it, enter **# 8**.
9. Enter **# * 1180183 * #** and listen for three beeps. (Enables voice prompt messages)
10. Enter **# #** to exit programming and hang up the phone.

Optional Programming Instructions

PURPOSE: **To Eliminate Autodialing:**
To disable the dialer from dialing a phone number. **(Used on a ring down telephone line)**
• Enter **# 94851 or #9000000** and listen for three beeps.
• Enter **# 0 * #**, listen for three beeps, enter **# 1 * #**, listen for three beeps.
• Enter **# 2 * #**, listen for three beeps, enter **# 3 * #**, listen for three beeps.
• Enter **# * 1180180 * #**, listen for three beeps. (Optional)
• Enter **# #** and hang up.

PURPOSE: **To Disable the Voice Prompt Message:**
To disable the voice prompt from saying: *"Elevator call at the tone press one to talk, press two for location".*
• Enter **# 94851 or #9000000** and listen for three beeps.
• Enter **# * 1180180 * #**, listen for three beeps.
• Enter **# #** and hang up.
CAUTION: This option cannot be used with two or more number dialing.

PURPOSE: **To Disable Voice Prompt Message and Delay Voice Location Message:**
To disable the voice prompt and have the location message play automatically every 19 seconds.
• Enter: **# 94851 or #9000000** and listen for three beeps.
• Enter: **# * 1180185 * #** and listen for three beeps.
• Enter: **# #** and hang up.

PURPOSE: **To Enable Voice Prompt Message: (DEFAULT)**
To enable the voice prompt message to say: *"Elevator call at the tone press one to talk, press two for location".*
• Enter **# 94851 or #9000000** and listen for three beeps.
• Enter **# * 1180183 * #** and listen for three beeps.

To program location message, see step 8 in programming instructions.
Enter **# #** and hang up.

PURPOSE: **To Enable Voice Prompt Message: (DEFAULT)**
To enable the voice prompt message to say: *"Elevator call at the tone press one to talk, press two for location"*.
• Enter **# 94851 or #9000000** and listen for three beeps.
• Enter **# * 1180183 * #** and listen for three beeps.
• To program location message, see step 8 in programming instructions.
• Enter **# #** and hang up.

List of Commands for *Programming Mode

NOTE: The phone enters Programming Mode after completing step 2 of the Programming Instructions.

• #0 First Phone Number *#
• #1 Second Phone Number *#
• #2 Third Phone Number *#
• #3 Fourth Phone Number *#
• #4 Identification Code *#
• #5 Programming New Password *# - Set Programming Access Code
• #7 - Records Location Message
• #8 - Plays back Location Message
• #* 1 XXX Y W Z *# - setup code (Default is: #* 1 180 1 8 3 *#)
    • XXX - Call Timer [000,060-990], 000=Disable timer
    • Y - Push Button Control [0-2]
       [0] Push on = turn on/push again = play message
       [1] Push on = turn on/push again = turn off
       [2] Push and hold = turn on/release = turn off
       [3-8] Push and hold to turn on for *Y* amount of seconds to make
          a call. If pushed for less than *Y* amount of seconds, turn
          off/push again = turn off
    • W - Unit ID [1-8]
    • Z - Voice Mode [0,3 or 5]
• **43 X *# - Ring Time (for outgoing calls) (18-60 range, 50 is default)
• **44 X *# - AUX1 Behavior (0-2), 0 = disabled, 1 = red led, 2 = green led,
      3 = VCC mode
• **45X*# - Redial, 0 = disabled (Default), 1 = Dial the number 1 more time,
    2 = Dial the number 2 more times.
• **8 XX *# - Set Language (1 = English: default, 2 = Spanish, X= [1-2]
       (must have 2 digits)
NOTE: **8XX*# will play both messages according to the order specified.
(Ex// **812*# = English then Spanish or **821*# = Spanish then English)
NOTE: If second message is not used, enter '0' for that message. For example, if you want to set to play English only you must program: **810*#.

Auxiliary Outputs Information

AUX1 (optional): The AUX1 output by default will not be active (open). If the user would like to activate this output they must program code: **44
- **X *#** - which controls the AUX1 behavior. The letter X on this code could be substituted by 0, 1, 2 or 3.
- **0 = Disabled** - The AUX1 will stay OPEN.
- **1 = Red LED mode** - The AUX1 will Close when the Red LED turns ON and Open when the Red LED turns "OFF".
- **2 = Green LED mode** – The AUX1 will Close when the Green LED turns ON and Open when the Green LED turns "OFF".
- **3 = VCC mode** - The AUX1 will Close when the phone turns ON and Open when the phone turns "OFF".
- **AUX2 (optional):** The AUX2 output is used for phone line monitoring. When a good phone line is connected to the unit this output is normally open. If the telephone line drops below 2 volts, is disconnected, or shorted for more than 15 minutes, this output will close.

NOTE: AUX2 will only work if the optional 12VAC power supply is connected to the P9 connector and a jumper is installed at the LM connector on the board.

Battery and Power Supply Information

The following information explains how to determine when a battery or power supply is needed or when to use a specific type of battery:

You will need a 9V battery or a 9-24VDC/12VAC power supply with 8.4V NiMH battery when:
1. The phone drops off the telephone line without completing the call.
2. There is more than one phone on the same telephone line and there is a need to call back to a specific elevator phone, or if all elevator phones need to be "ON" at the same time.

9-24VDC/12VAC Power Supply: Can be used on all phone lines. The 8.4V NiMH battery supplied with the power supply will need to be checked every 12 months. An AC connection is required and the battery will be charged by the power supply connected to the P9 connector of the board. The P9 connector is polarity sensitive so use caution when connecting to it (P9 is labeled with + and -).

CAUTION: DO NOT use an alkaline or lithium battery when the power supply is connected to the P9 connector.

Troubleshooting Guide

Always visually check the phone for loose or shorted wires, physically damaged, or missing components. The phone will not work on a Digital phone line. It will **only** work on an Analog phone line or an Analog port from a digital phone system.

Problem: Phone would not turn 'ON'
Possible Cause:
- Check phone line connection
- Check phone line voltage (Normal C.O. line 48-52VDC or 20-35VDC – internal systems)
- Try connecting a fully charged 9-Volt battery
- Make sure phone line is connected to the screw terminal connector at TELCO or the P1A modular phone jack (see P.C. Board Diagram on page 4)
- Check if unit is pulling down line voltage (you should read the same as the phone line voltage)
- Check voltage at controller
- Check button connection
- On an OEM style phone remove button connector and try shorting button connection at P2 EXT- ON/OFF pins

Problem: Phone dials incorrect number
Possible Cause:
- Check number programmed into phone
- Plug a phone in the jack and call the same number you are trying to program to see if you can call out
- Check to see if the phone is on a ring down line
- Check to see if another auto dialer is on the line and remove it
- Reprogram unit

Problem: Low or no sound through the speaker
Possible Cause:
- Check speaker connection (see P.C. Board Diagram)
- Try calling into unit and speaking to person in the car
- Try adjusting the speaker volume by calling into the phone and when it answers press "9" twice to adjust the volume to the maximum level.
- Check mounting of the unit. If a COP mount, remove from the COP and re-test. If a box style, remove from the back-box and re-test.

Problem: Noise on the line
Possible Cause:
- Check if twisted shielded pair was used
- Check if shield was connected to ground at the controller end only
- Measure AC voltage on line, it should be zero
- Check button connection
- Try a spare pair of wires through traveling cable
- Check if wire is running through hoist way by itself

Problem: Phone dials out but has broken communication
Possible Cause:
- Check if voice prompt message is being stopped
- Check if there is loud background noise in cab
- Check location of microphone
- Check mounting of unit
- Hold unit in hand and test
- Try adjusting the speaker and microphone volumes
- Check mounting of the unit. If a COP mount, remove from the COP and re-test. If a box style, remove from the back-box and re-test.
- Check to see if person answering call is using a headset as they could cause problems

Problem: Phone rings busy
Possible Cause:
- Check if other devices are on the line
- Check where phone line is properly connected to the unit
- Check voltage on phone line
- Check polarity on phone line
- Make sure unit is off
- Remove our unit from the line to see if line is still busy

Problem: Phone does not ring
Possible Cause:
- Check phone line connection
- Check ring voltage (min. 40VAC RMS)
- Check phone line ringing with a touch-tone phone (use the black jack on P.C board)

Problem: Phone turns 'ON' by itself
Possible Cause:
- Check phone line on-hook DC voltage. Voltage should be steady 24-52VDC.
- Check phone line on-hook AC voltage. Voltage should be less than 1VAC.
- Check push-button. Button should be a normally open dry contact.

Specifications

Input Connections: One shielded twisted pair communication cable (shield should be grounded at the controller only).

Phone Line Requirements: Standard (analog) loop start voice grade touch tone telephone line, PBX, or key system station Analog telephone line.

Optional AC Adapter:	9 - 24VDC / 12VAC @ min. 200mA
Power Required:	on-hook 0 ma
Power Required:	off-hook 20 to 30 ma
Phone Line Voltage:	on-hook 24 to 70VDC (nominally 48VDC)
Phone Line Voltage:	off-hook 8 to 20VDC (nominally 14VDC)
Ring Sensitivity:	40 - 120VAC RMS
Dialing:	DTMF (Dual Tone Multi Frequency)
Frequency Response:	550Hz - 3400Hz, +/- 3db.
Operational Loop impedance:	600 ohms
FCC Registration:	US: NLFTE05B25668
Ringer Equivalency Number:	0.5B