

3 Programming

Programming can be done from any telephone or extension on the PBX, using keypad DTMF tones. The following programming functions are discussed in this section:

- Day/Night Mode Selection
- Entering Programming Mode
- Resetting the Pantel/Pancode

3.1 Day/Night Mode Selection

Day and Night mode specify which of the programmed destination numbers, Day or Night number, will be called when the Call button is pressed. The operator can manually change the Day/Night mode.

To change the Day/Night mode:

1. Dial the Pantel/Pancode line/extension from any touch-tone telephone.
2. Wait until the Pantel/Pancode answers and beeps.
3. Enter *80 for Day Mode
-or-
Enter *81 for Night Mode.

3.2 Entering Programming Mode



NOTE

You will hear a short confirmation tone every time you enter a correct programming command, or a long error tone every time you enter an incorrect programming command.

To enter the programming mode:

1. Dial the Pantel/Pancode line/extension from any touch-tone telephone.
2. Wait until the Pantel/Pancode answers and beeps.
3. Dial *900 and wait for beep.
4. Enter the Programming Access Password (default password is 1234). Upon entering wrong password three consecutive times, device disconnects.

To exit the programming mode

- Dial *900
-or-
If no dialing occurs within 45 seconds, the program mode automatically exits.

3.3 Resetting the Pantel/Pancode

Resetting the Pantel/Pancode will automatically change the parameters in the unit to the manufacturers default.

To reset the unit:

1. Enter programming mode (see Section 3.2, *Entering Programming Mode*).
2. Dial *151.
3. A confirmation tone will be heard.
4. Exit programming mode.

To reset the unit in “speed dial” mode:

1. Enter programming mode (see Section 3.2).
2. Dial *152.
3. A confirmation tone will be heard.
4. Exit programming mode.

3.4 Pantel/Pancode Setup and Operation

The following table contains programming functions, which can be accessed in the programming mode for the Standard Setup and Operation.

Access Door Phone Programming Commands

| OPERATION | COMMAND | DEFAULT |
|--|---|--|
| The Day/Night DN will be dialed when the Call button is pressed, respective to Day/Night mode. The Error DN is dialed after receiving three invalid Access Code entries in a row | *360 + X + DN + # where: X = 1 Day X = 2 Night X = 3 Error Destination number (DN) = Up to 20 digits, including *, #, Pause, and A-D characters. For Error = 12 digits. For special character input, see section 0. | Day = 0 Night = 0 Error = No default |
| Delete a destination number assigned to Day, Night, or Error DNs. This command must be entered separately for each X value | *360 + X + # where: X = 1 Day X = 2 Night X = 3 Error | |
| Programming the prefix-digit(s) for PBX extensions dialing. When beginning with these digits, the units will process them as extension dialing | *170 + prefix-digit(s) + # Maximum 4 digits (Do Not use * or # as prefix digit) To cancel this operation, enter: *170 + # | No default |
| Digit(s) to open the door from any extension | *441 +XXXX + # where: XXXX= Digits (0-9) Note: Up to 4 digits. | 8 |

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| OPERATION | COMMAND | DEFAULT |
|---|--|---|
| Changing the Opening door Access Code | <p>*442 + (New Access Code) Access Codes can be up to four numeric digits. If the New Access Code is less than four numeric digits, press the # following the entry of the digits. Allowable characters are 0 through 9. Do not use the * or # keys. Note: The access code cannot begin with the same prefix digits as PBX extension numbers</p> | 9876 |
| Changing the door opening access code (for metal keypad units only) | <p>*442 + X + (New Access Code) where x=1-4 (code number)</p> | 1-9876 2-empty 3-empty 4-empty |
| Erasing door opening access code (for metal keypad units only) | <p>*442 + X + # where x=1-4 (code number)</p> | |
| Time between DTMFs | <p>*460 + X where: X = 1-9 (Each step is 200 msec)</p> | 2 (400) |
| Conversation time limit (sec) | <p>*462 + XX where: XX = Seconds (10-99) 00 = Unlimited</p> | 45 sec |
| Door opening time limit (sec) | <p>*464 + X where: X = Number of seconds (1-9)</p> | 3 sec |

| OPERATION | COMMAND | DEFAULT |
|------------------------------------|--|--------------|
| Number of cycles to Busy detection | *500 + X where: X= 0 – 9 (0 – no busy detection, 1 – 2 cycles, 2 – 4 cycles, etc.) | 3 (6 cycles) |
| Loop disconnect detection | *550 + X where: X = 0 off X = 1 on | 1 |
| Changing the programming password | *600 + (new password) Programming access password must be four numeric digits. Allowable characters are 0 through 9. Do not use the * or # keys. | 1234 |
| Camera instructions* | *620 + X X = 0 camera off X = 1 camera on X = 2 camera powered when call button is pressed X = 3 camera powered when any key is pressed | 0 |

**NOTE**

Camera instructions apply to Pancode/Pantel units with an installed camera.

Pancode Speed-Dial Setup

Pancode can also work in Speed-Dial mode. In this mode, keys 1-9 can be assigned destination phone numbers. When a key is pressed, the assigned destination number is dialed.

Speed-Dial Setup

The following table contains programming functions, which can be accessed in the programming mode for Speed-Dial mode operation.

Access Door Phone Programming Commands

| OPERATION | COMMAND | DEFAULT |
|---|---|--|
| Assigning a Speed-Dial destination number. This command must be entered separately for each X value | *120 + X + DN + # X = a digit 1 through 9 DN = Destination number (DN) = Up to 20 digits, including *, #, Pause, and A-D characters. For special character input, see section 3.5. | No default |
| Canceling a Speed-Dial destination number. This command must be entered separately for each X value | *120 + X + # X = a digit 1 through 9 | No default |
| The Day/Night DN will be dialed when the Call button is pressed, respective to Day/Night mode. The Error DN is dialed after receiving three invalid Access Code entries in a row | *360 + X + DN + # where: X = 1 Day X = 2 Night X = 3 Error Destination number (DN) = Up to 20 digits, including *, #, Pause, and A-D characters. For special character input, see section 3.5. | Day = 0 Night = 0 Error = No default |

| OPERATION | COMMAND | DEFAULT |
|--|--|---|
| Delete a destination number assigned to Day, Night, or Error DNs. This command must be entered separately for each X value | *360 + X + # where: X = 1 Day X = 2 Night X = 3 Error | |
| Defining the digit(s) to open the door from any extension | *441 + XXXX + # XXXX= Digits (0-9) Note: Up to 4 digits | 8 |
| Changing the Opening door Access Code | *442 + 0XXX+# 0XXX = New Access Code up to four digits. The first digit of the access code in Speed-dial mode must be 0. If the new access code is less than four numeric digits, press the # key following entry of the digits. The allowable characters are 0 through 9. Do not use the * or # keys. | 0123 |
| Changing the door opening access code (for metal keypad units only) | *442 + X + (New Access Code) where x=1-4 (code number) | 1-0123 2-empty 3-empty 4-empty |
| Erasing door opening access code (for metal keypad units only) | *442 + X + # where x=1-4 (code number) | |
| Time between DTMF's | *460 + X where: X = 1-9 (Each step is 200 msec) | 2 (400) |
| Conversation time limit (sec) | *462 + XX XX = Seconds (10-99) 00 = Unlimited | 45 sec |

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| OPERATION | COMMAND | DEFAULT |
|------------------------------------|---|--------------|
| Door opening time limit (sec) | *464 + X XX = Number of seconds (1-9) | 3 sec |
| Number of cycles to Busy detection | *500 + X where: X = 0 – 9 (0 – no busy detection, 1 – 2 cycles, 2 – 4 cycles, etc.) | 3 (6 cycles) |
| Loop disconnect detection | *550 + X where: X = 0 off X = 1 on | 1 |
| Changing the programming password | *600 + (new password) Programming access passwords must be four numeric digits. The allowable characters are 0 through 9. Do not use the * or # keys. | 1234 |
| Camera instructions* | *620 + X X = 0 camera off X = 1 camera on X = 2 camera powered when call button is pressed X = 3 powered by any touch on unit keypad | 0 |



NOTE

Camera instructions apply to Pancode/Pantel units with an installed camera.

3.5 Entering Special DTMF Characters

Special character/s in destination numbers can be entered using the telephone keypad. The following table shows the corresponding keypad entries needed for creating special DTMF characters.

| DTMF CHAR. | NUMBER TO DIAL |
|------------|--------------------------------|
| Digits 0-9 | 0-9 |
| * | ** |
| Pause | *1, indicates a 1 second pause |
| # | *4 |
| A | *5 |
| B | *6 |
| C | *7 |
| D | *8 |

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4 Specifications

4.1 General Specifications

| | |
|---|--|
| Power Supply (External) | 12V AC@1.6A (supplied with unit) |
| Line Voltage | 24-72V DC |
| DC Leakage | < 10 μ A |
| On-Hook Insulation (Resistance Between Line Terminal and Ground) | 0-100V DC > 5M Ω 100-200 V DC > 30 K Ω 500V AC/50Hz > 20K Ω 100V AC/25Hz > 100K Ω |
| Ring Capacitor | 0.47 μ F \pm 10% |
| On-Hook Impedance | @50V DC, 40V AC/25Hz>3000 Ω |
| Ring Detect | 27-100 V AC/16-60 Hz |
| DC Resistance (Off-Hook) | 24-66V DC @ 20-100mA/350 Ω |
| Impedance (Off-Hook) | 300-3400Hz 500-700 Ω |
| Imbalance Ratio | 300-3400Hz > 46dB |
| Return Loss | 300-3400Hz > 18dB |
| Current During Break | < 700 μ A |
| DTMF Transmission: | |
| Frequency Tolerance | \pm 1.5% |
| Frequency Level (High) | -6 to -8dBm |
| Frequency Level (Low) | -8 to -10dBm |
| Inter-Digit Pause Time | 70-80ms |
| Relay Switching Current | 2A max |
| Dimensions | |
| Outdoor Unit | 19.4cm x 10.2cm/7.6inch x 4.0inch |
| Indoor Unit | 18.5cm x 9.5cm/7.3inch x 9.5inch |
| Operating Temperature | Outdoor: -20 $^{\circ}$ C to +50 $^{\circ}$ C/4 $^{\circ}$ F to 122 $^{\circ}$ F Indoor: 0 $^{\circ}$ C to +35 $^{\circ}$ C/32 $^{\circ}$ F to 95 $^{\circ}$ F |