

# TECHNICAL Practice

**TELECOM SOLUTIONS FOR THE 21ST CENTURY**

**E-30/E-30-EWP**

**Handsfree Speaker  
Phone with Dialer**

January 2, 2002

## Provide Reliable and Intelligent Handsfree Communication!



E-30

The **E-30** handsfree phone is designed to provide quick and reliable handsfree communication and can be connected directly to a C.O. line or analog PABX/KSU station.

The **E-30** features non-volatile memory, a built in dialer, and intelligent call progress detection for automatic hang-up when the call is completed.

The **E-30** can be programmed to dial up to 5 different numbers on ring no answer or busy and can be configured to dial these numbers until answered.

The **E-30-EWP** shares all of the features of the **E-30** in addition to Enhanced Weather Protection (EWP) for installation in harsh environments. EWP products feature rubber gaskets and boots, hand soldered silicon sealed connections, gel filled tip and ring connectors, as well as urethane potted circuit boards with weather sealed, field-adjustable trim pots and DIP switches for easy on-site programming.



E-30 shown with  
optional VE-5x5

Phone...715.386.8861

## Features

- Handsfree operation
- Phone line powered
- Vandal resistant, stainless steel faceplate with heavy-duty metal call button
- Non-volatile E<sup>2</sup> memory (no batteries required)
- Touch Tone or pulse dialing
- Programmable to dial up to 5 numbers on busy or ring no answer
- Red off-hook LED indicator
- Hangs up on CPC, silence, busy signal, return to dial tone, time out or a Touch Tone command
- Programmable to auto-answer on incoming calls
- Remotely programmable
- Extended temperature range (-15°F to 130°F)
- **E-30-EWP offers enhanced weather protection**



Need More Information on EWP?  
Call (715) 386-4345 and select 859.

- Rough-in box and faceplate gasket included
- Optional surface mount back box available



Need More Information on the VE-5x5?  
Call (715) 386-4345 and select 424.

## Applications

### Non-ADA Hot-Line Phones for:

- Elevators
- Parking lots/ramps
- ATM machines
- Stadiums
- Convention centers

### Gate and Door Entry Phones for:

- Business lobbies
- Vehicular and pedestrian gates
- Residences



**Attention Panasonic DBS Users:** The 576 DBS systems do not conform to analog telecom standards and are incompatible with the **1600A Series** Emergency Phones and **E-30** Handsfree Phones unless modified.



Need More Information on the 576 DBS?  
Call (715) 386-4345 and select 857.

## Specifications

**Power:** Telephone line powered (24VDC talk battery w/20mA loop current minimum)

**Minimum Ring Voltage:** 90VAC RMS

**Dimensions:** Overall-127mm x 127mm x 57mm (5" x 5" x 2.25"), Plastic Electrical Box-102mm x 102mm x 54mm (4" x 4" x 2.12")

**Shipping Weight:** 1 Kg (2.2 lbs)

**Operating Temperature:** -26°C to 54°C (-15°F to 130°F)

**Humidity - E-30:** 5% to 95% non-condensing

**Humidity - E-30-EWP:** Up to 100% condensing

**Connections - E-30:** RJ11 jack

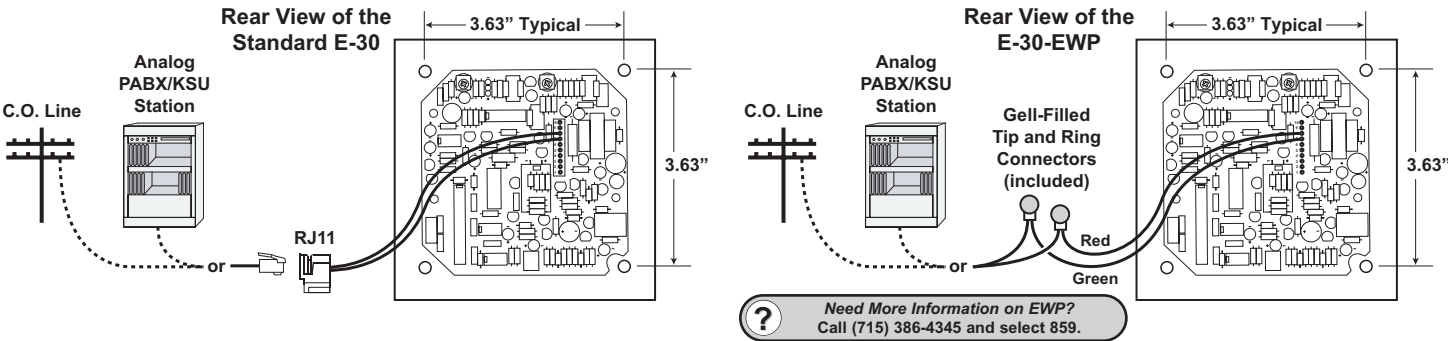
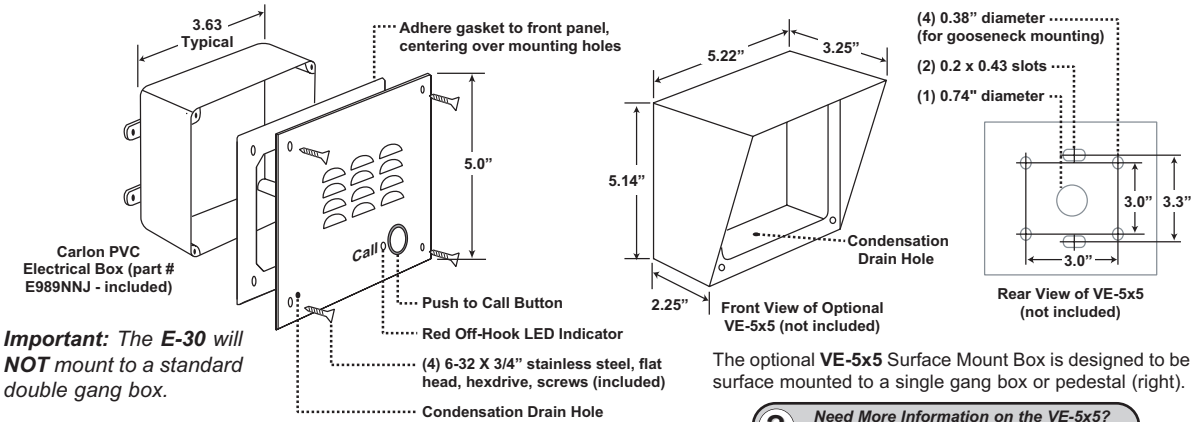
**Connections - E-30-EWP:** Gel-filled butt connectors

# Installation

**!** **IMPORTANT:** Electronic devices are susceptible to lightning and power station electrical surges from both the AC outlet and the telephone line. It is recommended that a surge protector be installed to protect against such surges. Contact Panamax at (800) 472-5555 or Electronic Specialists Inc. at (800) 225-4876.

**Caution:** When warm air comes in contact with cold surfaces, such as outside walls and conduits, it causes condensation. To prevent condensation from accumulating inside the **E-30** always bring conduit into the bottom of the unit. If this is not possible, drill a 1/4" diameter hole in the bottom of the gray plastic box.

**Note:** When using the large foam gasket (flush mounting), peel off paper liner and adhere gasket to the back of the faceplate, centering it over the four corner mounting holes. Be careful to position the modular jack inside the chassis as not to damage the components on the circuit board.



# Programming

## A. Accessing the Programming Mode

The **E-30** phone can be programmed from any Touch Tone phone using a C.O. line, analog PABX/KSU station, or a **DLE-200B** Line Simulator. **?** Need More Information on the DLE-200B? Call (715) 386-4345 and select 605.

### 1. Using the Security Code

<b>Step 1.</b>	Move DIP switch 2 to the <b>ON</b> position (sets unit to answer incoming calls - see section E).
<b>Step 2.</b>	From a Touch Tone phone call the line attached to the <b>E-30</b> .
<b>Step 3.</b>	When the <b>E-30</b> answers, enter the 6-digit security code (factory set to 845464 - see section B). A double beep should then be heard indicating you have entered the programming mode.

### 2. Without the Security Code

<b>Step 1.</b>	Move DIP switch 2 to the <b>ON</b> position (sets unit to answer incoming calls - see section E).
<b>Step 2.</b>	Move DIP switch 3 to <b>OFF</b> (incoming calls enter the programming mode without security code - see section E).
<b>Step 3.</b>	From a Touch Tone phone call the line attached to the <b>E-30</b> .
<b>Step 4.</b>	When the <b>E-30</b> answers, a double beep will be heard and you will automatically enter the programming mode.
<b>Step 5.</b>	When finished programming, move DIP switch 3 back to the <b>ON</b> position (see section E).

**Note:** If a valid memory position is entered, a double beep will be heard, four beeps indicate an error.

Touch Tone	Call Length Time Out
0	Disabled
1	1 min
2	2 min
3	3 min*
4	4 min
5	5 min
6	6 min
7	7 min
8	8 min
9	9 min

### Setting C - Silence Time Out

This feature selects the length of time that calls will remain connected without voice activity. Programmable in increments of 10 seconds up to a maximum of 90 seconds (Touch Tones 1 - 9). To disable the silence time out, program 0 in this location. Use chart at the right. \* **Note:** The factory default is 40 seconds.

Touch Tone	Silence Time Out
0	Disabled
1	10 sec
2	20 sec
3	30 sec
4	40 sec*
5	50 sec
6	60 sec
7	70 sec
8	80 sec
9	90 sec

### Setting D - Dial Next Number on Ring No Answer

If enabled and a ring-no-answer is detected, the **E-30** phone will dial the next programmed speed dial number, and continue to cycle through the emergency numbers until a call is completed. \* **Note:** This feature is disabled in the factory default.

Touch Tone	Setting D
1 or 0	Disabled*
2, 3, 4...9	Dials second number after 2, 3, 4...9 rings respectively

### Setting E - Dial Next Number on Busy

If enabled and a busy is detected, the **E-30** phone will dial the next programmed speed dial number, and continue to cycle through the emergency numbers until a call is completed. \* **Notes:** This feature is disabled in the factory default setting. If the busy signal is interrupted with a promotional message, contact your central office to have it removed.

Touch Tone	Setting E
1	Disabled*
2	Enabled

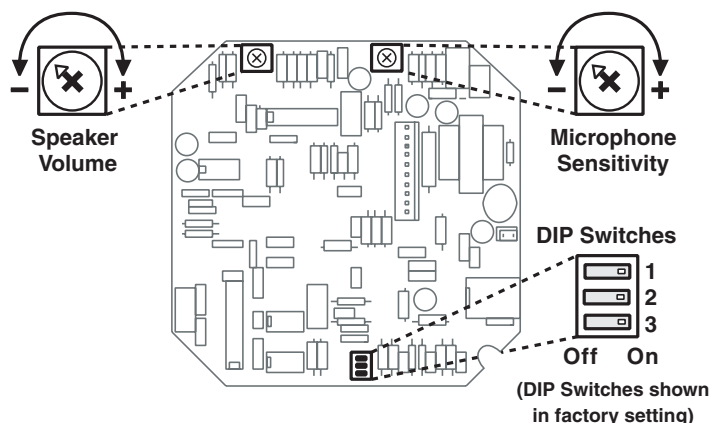
### Setting F - Pulse Dialing Rate (Pulses per Second)

The **E-30** phone is capable of different pulse dialing speeds. \* **Note:** The factory default setting is 10pps (pulses per second).

Touch Tone	Setting F
1	10 pps*
2	20 pps

## F. DIP Switch Programming/Speaker and Microphone Adjustments

Two POTs are provided to increase or decrease speaker volume and microphone sensitivity. In certain noisy locations the microphone sensitivity may need to be decreased as shown below. **Caution:** Setting the microphone gain too high may cause distorted audio, prevent the distant party from breaking over and inhibit second number redialing.



DIP Switch	Position	Description
1	ON	"Call" button alternately connects and disconnects calls (factory setting)
1	OFF	"Call" button connects calls only
2	ON	Incoming calls answered (factory setting)
2	OFF	Incoming calls are not answered
3	ON	Normal operation mode (factory setting)
3	OFF	Learn mode - Any incoming calls are automatically entered into the programming mode (no security code required). Use this option if you have forgotten your security code.

## G. Programming Examples

To Program the 1600A Series Phone...	Step 1 - See Section A	Step 2 - Enter Digits:
...to store 123456 as the security code	Enter Programming	1 2 3 4 5 6 # 1 9
...to store a Touch Tone 9, a four second pause and then a pulse dialed 333-4444 in the first speed dial position	Enter Programming	9 *7 *6 3 3 3 4 4 4 4 # 0 0
...to store 555-1234 in the second speed dial position	Enter Programming	5 5 5 1 2 3 4 # 0 1

## Operation

When the "Call" button is pressed, the **E-30** phone goes off-hook, and dials a pre-programmed telephone number. The front panel LED will light any time the phone is off hook. In the event that the line is busy or there is a ring-no answer, the unit can be programmed to call additional phone numbers. The phone then cycles through up to 5 pre-programmed speed dial numbers until the call is answered. The **E-30** will hang up on CPC, silence, busy signal, return to dial tone, time out or Touch Tone command (\*#). If programmed to auto-answer, the **E-30** will also answer any incoming call.

**Product Support Line...715.386.8666**

**Fax Back Line...715.386.4345**

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