

# TECHNICA

## Practice

TELECOM SOLUTIONS FOR THE 21ST CENTURY

## W-3000/ W-3000-EWP

Vandal Resistant Handsfree Doorbox

October 8, 2002

## Answer Your Door or Gate from any Phone in Your Home or Business



Answer your door or gate from the safety of your telephone!

The **W-3000** weather resistant, handsfree doorbox provides an attractive and vandal resistant stainless steel faceplate. It is designed to interface directly with the unused telephone line input of nearly any phone system. One or two doorboxes can also share an existing residential phone line when used with a C-1000A doorbox controller.

When the "Call" button is pressed, the doorbox generates a standard or custom ring cadence of an adjustable number of rings. For

noisy environments, the doorbox's new louder speaker output and "Push-to-Talk" feature can be used.

The W-3000-EWP shares all of the features of the W-3000 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, urethane potted circuit boards with weather sealed, field adjustable trim pots and DIP switches for easy on-site programming.



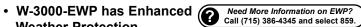
W-3000 shown with optional VE-5x5

## Features

- · Vandal resistant, 14 gauge stainless steel faceplate, heavy-duty metal push button and mounting gasket. Flush mount using the included rough-in box or surface mount using an optional VE-5x5 backbox
- Yellow call progress/ night light LED



- · New high output speaker amplifier with volume adjustment POT
- Microphone volume adjustment POT
- 24 volt talk battery
- 20 Hz ring generator (3.0 REN ring load maximum)
- Selectable ring cadence (standard or 2 short rings)
- Selectable number of rings (2, 3, 10 or 30)
- · Selectable "Push-to-Talk" feature for noisy environments
- Extended operating temperature range: -15°F to 130°F
- · Compact 45° terminal strip for easy wiring
- **Weather Protection**



Phone...715.386.8861 http://www.vikingelectronics.com

# Applications

- · Ideal for noisy locations
- Commercial, industrial or residential door security
- · Door or gate communication
- Truck stop/gas station fuel island communication
- Use with the C-1000A controller for single line residential systems or when the operation of door strikes or gate openers is necessary



## Specifications

Power: 120V AC/13.8V AC 1.25A UL listed adapter provided **Dimensions:** Overall - 127mm x 127mm x 57.2mm (5.0" x 5.0" x 2.25") Plastic Rough-In Box - 102mm x 102mm x 54mm (4.0" x 4.0" x 2.12")

Shipping Weight: 1.81 Kg (4 lbs)

Operating Temperature: -26°C to 54°C (-15°F to 130°F) Humidity: W-3000 - 5% to 95% non-condensing humidity, W-

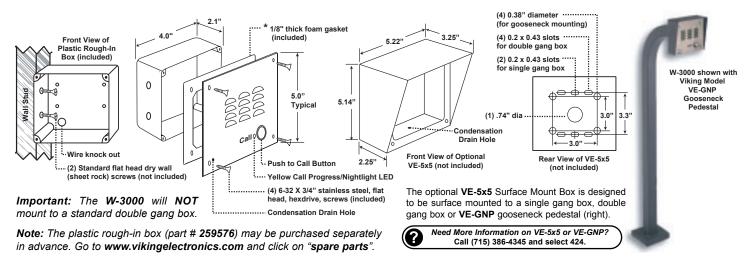
3000-EWP - Up to 100% condensing humidity Ringer Output: 20 Hz, 3.0 REN load maximum

Maximum Loop Length: 1.9 Km (6300 ft) - 24 AWG twisted pair Maximum Power Run: 30.5 m (100 ft) - 24 AWG twisted pair (additional length may be added by doubling wire pairs or increasing wire gauge)

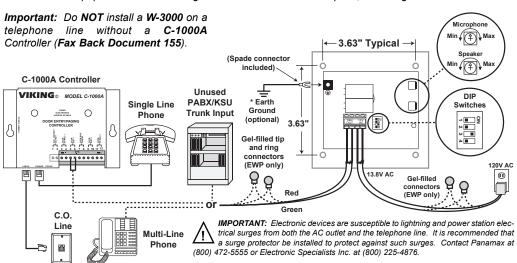
Connections: W-3000 - (4) position screw terminal strip, W-3000-EWP - Gel filled butt connectors

## Installation

Caution: When warm air comes in contact with cold surfaces, such as outside walls, it causes condensation. To prevent condensation from accumulating inside the W-3000, bring conduit into the bottom of the unit. If this is not possible, drill a 1/4" diameter hole in the bottom of the plastic rough-in box.



<sup>\*</sup> Note: Peel off paper liner and adhere gasket to the back of the faceplate, centering it over the four corner mounting holes.



#### **DIP Switch Programming**

Sw 1	Ring Cadence	
OFF	Standard: (1 sec ON, 3 sec OFF)	
ON	Custom (2 short rings): .5 sec ON, .25 sec OFF, .5 sec ON, 3 sec OFF	

Sw 2	Sw 3	Ring Output
OFF	OFF	2 Ring
ON	OFF	3 Rings
OFF	ON	10 Rings
ON	ON	30 Rings

Sw 4	Communication Mode	
OFF	Normal Handsfree Mode	
ON	Push-to-Talk Mode	

<sup>\*</sup> Note: To increase surge protection, loosen the PCB mounting screw labeled ( (as shown above) and fasten a wire with spade terminal (included) from the mounting screw to Earth Ground (grounding rod, water pipe, etc.)

# **Programming and Operation**

#### A. Microphone and Speaker Volume Adjustment POTs

In certain noisy locations, the microphone volume may need to be decreased. A microphone POT (see installation above) is provided on the **W-3000**'s circuit board to increase or decrease the microphone volume. However, in extremely noisy locations the microphone POT adjustment may not be enough to allow two-way talk path. In this case the "Push-to-Talk" mode should be used as shown in the DIP switch settings above (see section **C** below). **Note:** Both POTs come factory set in the middle position. A speaker volume POT is also provided for increasing or decreasing the speaker audio as needed.

#### B. Handsfree Operation (Dip Switch 4 - OFF)

When the "Call" button is pressed, the call progress LED will turn off and the W-3000 will begin generating a 20 Hz ring signal. The caller at the W-3000 will hear an audio ring back signal while the LED flashes. When the inside party has answered, the LED will light until the inside party hangs up. At that point, the LED will turn off for approximately one second and then light steady to illuminate the W-3000 after dark.

#### C. Push-To-Talk Operation (Dip Switch 4 - ON)

In extremely noisy locations, the "Push-to-Talk" mode should be used. To switch to the "Push-to-Talk" mode, place DIP switch 4 in the **ON** position (see **Dip Switch Programming**). To initiate a call, momentarily press the "**Call**" button to generate the ring signal. After the inside party has answered, press and hold the call button to talk. Release the call button to listen.

#### Product Support Line...715.386.8666

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