

TECHNICA

Practice

TELECOM SOLUTIONS FOR THE 21ST CENTURY

W-1000, W-1000-EWP W-2000A and W-2000A-EWP

Handsfree Doorboxes

May 9, 2006

Answer Your Door or Gate From Any Phone in Your Home or Business





W-1000/W-1000-EWP

W-2000A/W-2000A-EWP

Now you can answer your door or gate from the safety of your telephone! The W-1000 (flush mount) and W-2000A (surface mount) doorboxes are designed to be installed on the unused telephone line input of nearly any phone system. One or two doorboxes can also share an existing residential phone line and provide door strike and CCTV camera control when used in combination with a C-1000B doorbox controller.

When the "Call" button is pressed, the doorbox generates a standard ring cadence for an adjustable number of rings. To converse with the visitor, the inside party simply answers the call from the phone of their choice.

For outdoor or harsh environments, the W-1000 and W-2000A are available with Enhanced Weather Protection (EWP). The W-1000-EWP and W-2000A-EWP feature rubber gaskets and boots, closed cell foam gasketing, hand soldered silicon sealed connections, anti-corrosive gel filled butt connectors, as well as urethane encapsulated circuit boards with internally sealed, field-adjustable trim POTS and DIP switches.

IMPORTANT: In noisy locations requiring the push-to-talk feature, use the W-3000.

Features -

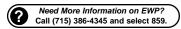
W-1000/W-1000-EWP Features

- Vandal resistant, black powder painted, aluminum face plate with heavy duty metal call button and mounting gasket
- Flush mountable using included plastic rough-in box part # 259576
- ional VE-5x5 backbox



W-2000A/W-2000A-EWP Features

- Light gray colored, impact resistant, U.V. stable, plastic chassis
- Surface mountable only
- · New high output speaker amplifier with volume adjustment POT
- Microphone volume adjustment POT
- 24 volt talk batterv
- 20 Hz ring generator (3.0 REN ring load maximum)
- Selectable number of rings (2, 3, 10 or 30)
- Extended operating temperature range: -15°F to 130°F
- Compact 45° terminal strip for easy wiring
- Optional Enhanced **Weather Protection**



Applications

- · Commercial, industrial and residential door security
- Door or gate communication
- Use with the C-1000B controller for single line residential systems or when the operation of door strikes, gate openers or cameras Need More Information on the C-1000B? Call (715) 386-4345 and select 155. are necessary

Phone...715.386.8861

Specifications

Power: 120V AC/13.8V AC 1.25A UL listed adapter provided **Dimensions: W-1000 -** Overall - 127 x 127 x 57 mm (5.0 x 5.0 x 2.25"), Plastic Electrical Box - 102 x 102 x 57mm (4 x 4 x 2.25"), W-2000A - 140 x 115 x 38mm (5.5" x 4.5" x 1.5")

Shipping Weight: W-1000 - 1.36 kg (3 lbs), W-2000A - .75 kg

(1.5 lbs)

Standard W-1000/W-2000A Environment: -26° C to 54° C (-15° F to 130° F) with 5% to 95% non-condensing humidity

W-1000-EWP/W-2000A-EWP Environment: -26° C to 54° C (-15° F to 130° F) with up to 100% condensing humidity

Ringer Output: 3.0 REN maximum, 20Hz Ring Cadence: 1 second ON, 3 seconds OFF

Maximum Loop Length: 1.9 Km (6300 ft) - 24 AWG twisted pair Maximum Power Run: 45.7 m (150 ft) - 24 AWG twisted pair **Note:** Power run length may be increased, see **Wiring** sections

Speaker Volume: Approximately 70db maximum @ 1m Standard Connections: (1) 4-position terminal block EWP Connections: (4) gel-filled butt connectors

IF YOU HAVE A PROBLEM WITH A VIKING PRODUCT, PLEASE CONTACT: VIKING TECHNICAL SUPPORT AT (715) 386-8666

Our Technical Support Department is available for assistance Monday 8am-4pm and Tuesday through Friday 8am-5pm central time. So that we can give you better service, before you call please:

- 1. Know the model number, the serial number and what software version you have (see serial label)
- 2. Have your Technical Practice in front of you.
- 3. It is best if you are on site

RETURNING PRODUCT FOR REPAIR

The following procedure is for equipment that needs repair:

- 1. Customer must contact Viking's Technical Support Department at 715-386-8666 to obtain a Return Authorization (RA) number. The customer MUST have a complete description of the problem, with all pertinent information regarding the defect, such as options set, conditions, symptoms, methods to duplicate problem, frequency of failure, etc.
- 2. Packing: Return equipment in original box or in proper packing so that damage will not occur while in transit. Static sensitive equipment such as a circuit board should be in an anti-static bag, sandwiched between foam and individually boxed. All equipment should be wrapped to avoid packing material lodging in or sticking to the equipment. Include ALL parts of the equipment. C.O.D. or freight collect shipments cannot be accepted. Ship cartons prepaid to: Viking Electronics, 1531 Industrial Street, Hudson, WI 54016
- 3. Return shipping address: Be sure to include your return shipping address inside the box. We cannot ship to a PO Box
- 4. RA number on carton: In large printing, write the R.A. number on the outside of each carton being returned.

RETURNING PRODUCT FOR EXCHANGE

The following procedure is for equipment that has failed out-of-box (within 10 days of purchase):

- 1. Customer must contact Viking's Technical Support at 715-386-8666 to determine possible causes for the problem. The customer MUST be able to step through recommended tests for diagnosis.
- If the Technical Support Product Specialist determines that the equipment is defective based on the customer's input and troubleshooting, a Return Authorization (R.A.) number will be issued. This number is valid for fourteen (14) calendar days from the date of issue.
- After obtaining the R.A. number, return the approved equipment to your distributor, referencing the R.A. number. Your distributor will then replace the product over the counter at no charge. The distributor will then return the product to Viking using the same R.A. number
- The distributor will NOT exchange this product without first obtaining the R.A. number from you. If you haven't followed the steps listed in 1, 2 and 3, be aware that you will have to pay a restocking charge.

WARRANTY

Viking warrants its products to be free from defects in the workmanship or materials, under normal use and service, for a period of one year from the date of purchase from any authorized Viking distributor or 18 months from the date manufactured, which ever is greater. If at any time during the warranty period, the product is deemed defective or malfunctions, return the product to Viking Electronics, Inc., 1531 Industrial Street, Hudson, WI., 54016. Customer must contact Viking's Technical Support Department at 715-386-8666 to obtain a Return Authorization (R.A.) number.

This warranty does not cover any damage to the product due to lightning, over voltage, under voltage, accident, misuse, abuse, negligence or any damage caused by use of the product by the purchaser or others.

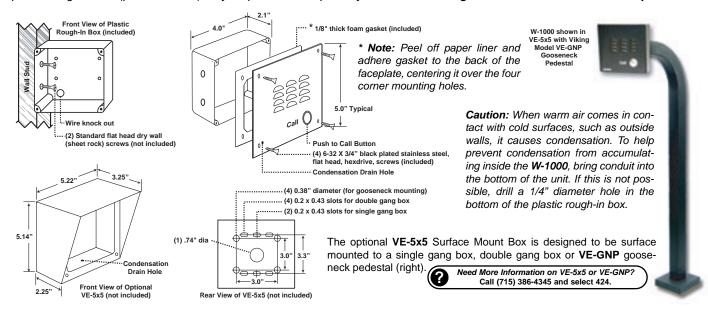
Vikings sole responsibility shall be to repair or replace (at Viking's option) the material within the terms stated above. VIKING SHALL NOT BE LIABLE FOR ANY LOSS OR DAMAGE OF ANY KIND INCLUDING INCIDENTAL OR CONSE-QUENTIAL DAMAGES RESULTING DIRECTLY OR INDIRECTLY FROM ANY BREACH OF ANY WARRANTY EXPRESSED OR IMPLIED, OR FOR ANY OTHER FAILURE OF THIS PRODUCT. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation may not apply to you

THIS WARRANTY IS IN LIFU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY EXCLUDED BEYOND THE ONE YEAR DURATION OF THIS WARRANTY. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you.

Installation -

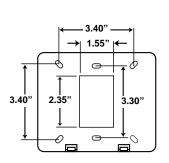
A. Mounting the W-1000 and W-1000-EWP

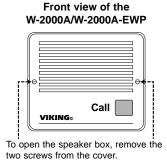
The W-1000 and W-1000-EWP are designed to be flush mounted to the included 4" x 4" x 2" deep plastic rough in box or surface mounted using optional Viking model VE-5x5. Note: The W-1000/W-1000-EWP will NOT mount to a standard double gang box. The plastic rough in box (part # 259576) may be purchased separately. Go to www.vikingelectronics.com and click on "Spare Parts".

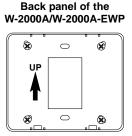


B. Mounting the W-2000A and W-2000A-EWP

The W-2000A and W-2000A-EWP are designed to be surface mounted to a single gang box (not included), a standard 4" x 4" electrical junction box (not included), or directly to a wall or flat sided post.







Mount back panel to a wall, a single gang box or a 4"x4" junction box with the arrow pointing up.

W-2000A/W-2000A-EWP

Side view of the

Attach the cover to the base with the two included screws as shown

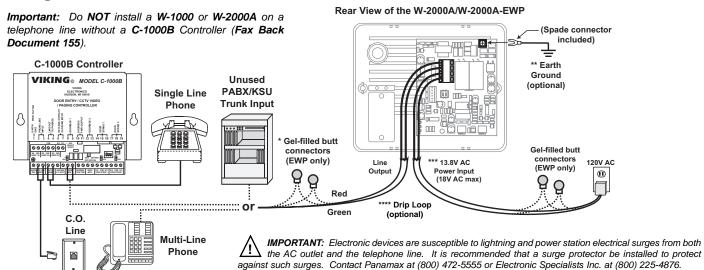
Note: For outdoor applications apply a bead of caulk between back panel and wall.

C. Wiring the W-1000 and W-1000-EWP

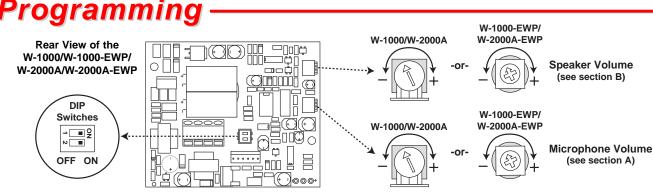
Important: Do NOT install a W-1000 or W-2000A on a telephone line without a C-1000B Controller (Fax Back Document 155). (Spade connector included) C-1000B Controller Unused Earth VIKING® MODEL C-1000E Ground PABX/KSU Single Line 8 (optional) Trunk Input Phone Gel-filled butt 0 Gel-filled butt connectors (EWP only) 120V AC *** 13.8V AC Line (EWP only) • Output (18V AC max) Ĝ Drip Loop or Green (optional) C.O. Line IMPORTANT: Electronic devices are susceptible to lightning and power station electrical surges from both Multi-Line the AC outlet and the telephone line. It is recommended that a surge protector be installed to protect Phone against such surges. Contact Panamax at (800) 472-5555 or Electronic Specialists Inc. at (800) 225-4876.

Rear View of the W-1000/W-1000-EWP

D. Wiring the W-2000A and W-2000A-EWP



- * Note: The gel-filled (water-tight) butt connectors are designed for insulation displacement on 19-26 gauge wire with a maximum insulation diameter of 0.082 inches. Do not strip wires prior to terminating.
- ** 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.)
- *** Warning: The power run wire length is limited to 150 ft of 24 AWG wire. Longer power runs will require heavier gauge wire (doubling pairs) and/or a higher voltage power adapter. Power runs from 150 - 250 ft of 24 AWG wire are possible using a Radio Shack 18VAC adapter (part # 273-1690). Voltage at the doorbox power input connections must not exceed 18VAC RMS.
- **** Note: When wires are routed from above, a "drip loop" is recommended to keep water away from the circuit board.



Note: Pots are shown in factory default settings.

A. Microphone Volume

In certain noisy locations (background traffic, machinery or wind), the microphone volume may need to be decreased. A symptom of this is one-way talk path, in which the distant party cannot be heard over the speaker. A "MIC VOL" adjustment is provided on the W-1000/2000A for increasing or decreasing the microphone volume. Notes: If the microphone volume is set too high or too low, one-way talk path may occur. For extremely noisy environments, use the W-3000 in the "PUSH to TALK" mode. Need More Information on W-3000?

Call (715) 386-4345 and select 180.

B. Speaker Volume

The SPKR VOL pot can be adjusted to increase or decrease the speaker volume to the level desired as shown above.

C. Maximum Number of Rings

The maximum number of rings can be adjusted using the DIP switches. Use the chart at the right to adjust the maximum number of rings.

Sw 1	Sw 2	Maximum Rings
OFF	OFF	2 Ring
ON	OFF	3 Rings
OFF	ON	10 Rings
ON	ON	30 Rings

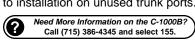
Operation

In the idle state, the W-1000 or W-2000A provides 24V DC talk battery. When the "Call" button is pressed, the W-1000 or W-2000A generates a standard ring cadence (approximately 1 second ON and 3 seconds OFF) that is adjustable to 2, 3, 10 or 30 rings. When the call is answered, ringing will stop automatically and the calling party can converse handsfree (similar to a speakerphone) with the called party. The talk path will be maintained until the called party (inside phone) hangs up.

Related Products-

C-1000B Door Entry Controller

The **C-1000B** allows single line phones or phone systems to share a phone line with one or two doorboxes or paging amplifiers. The C-1000B provides two Touch Tone controlled relays to operate door strikes or gate openers and provides doorbox triggered CCTV camera switching. Doorboxes and paging amplifiers can now be used on single line, residential or home office applications as well as on fully loaded systems, because they are no longer limited to installation on unused trunk ports. The C-1000B expands the potential installation sites for many





RC-2A Remote Touch Tone Controller

peripherals such as doorboxes and paging amplifiers.



The RC-2A Remote Controller provides remote relay operation from any standard Touch Tone telephone.

The controller is designed to be installed either locally or remotely. For local installations the RC-2A can be installed in series on any analog communications path, such as analog C.O. lines, analog PABX/KSU stations or Viking's W-Series Doorboxes. and will passively monitor for Touch Tone commands. For off-premise applications, the RC-2A will answer analog C.O. lines or PABX/KSU stations after a selectable ring delay. A field programmable access code can also be programmed to prevent unauthorized usage. The Need More Information on the RC-2A? RC-2A will then allow remote relay operation. Call (715) 386-4345 and select 160.

Add Paging and Door Chimes with an SLP-1

The SLP-1 Single Line Paging controller will allow you to page family members or co-workers from any phone in your home or small office. The pages can be heard over the same speakers that are installed for music distribution.

The SLP-1 connects in series with a single existing phone line. The unit has a built-in 2 watt amplifier, pre-amp output, music on hold input, intercom features and selectable loud ringing. The SLP-1 provides an input for a lighted doorbell switch, allowing a door chime to be heard over existing speakers. Page from several different phone lines by connecting Need More Information on the SLP-1? multiple units.

Call (715) 386-4345 and select 478.



Product Support Line...715.386.8666

Fax Back Line...715.386.4345

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