

ST-0219

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ShoreTel and Viking Door Entry System

This application note summarizes how to use and configure a Viking Door Phone with Lock on a ShoreTel system.

Overview

Some customers have a need for a door entry system where by someone could use a phone at the entrance door of a secure building, speak with someone inside, and the person inside enters a telephone code that would unlock the door.

Several ShoreTel customers are using the Viking C-2000 Advanced Door Entry Controller with the Viking E-10, the E-20A, or the E-30 two-way speaker phones which are also available with Enhanced Weather Protection (EWP) for outdoor environments.

Configuration

Refer to the Viking website for technical specifications of the Viking products available. <http://www.vikingelectronics.com>

Also refer to the ShoreTel System Administration Guide for additional configuration information and ShoreTel Application Note # 113 Deploying Direct Ring Down Circuits which can be found on the Support site. www.support.shoretel.com

Below are some basic configuration guidelines.

Configure and Use Viking Door Phone with Lock

Configure ShoreTel System

1. Identify an Analog Loop Start trunk group called Door Phone.
2. Add a trunk port to the Door Phone trunk group.
3. Connect the Door Phone trunk port on the ShoreGear switch to the 'PHONES' input jack
4. Configure an extension for the Door Phone.
5. Connect the Door Phone extension on the ShoreGear switch to the 'LINE IN' input jack.

Configure Viking C-2000 Advanced Door Entry Controller

1. Connect Door Phone trunk to the 'PHONES' input jack.
2. Connect Door Phone extension to the 'LINE IN' input jack.
3. Wire the Viking C-2000 per C-2000 Technical Practice Instructions A: One or Two Door boxes Sharing a Phone Line.
4. Wire the Door Strike/Magnetic Lock.

Configure Viking E-10, E-20, or E-30 Door Phones

1. Wire per E-10, E-20, or E-30 instructions.

Call from ShoreTel Phone to Door Phone

1. Dial the call box extension number. Example: 116
2. The call box will call your extension back. Answer this call.
3. Enter #1 to activate the Door box phone.

Call from Door Phone to ShoreTel Phone

1. Press call button.
 2. Call goes to Door Phone trunk group extension destination (this can be a workgroup).
 3. Inside extension answers call, talks, presses ** to open door.
 4. If inside extension wants to call the Door Phone back, use the procedure to Call from ShoreTel Phone to Door Phone.
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Viking Specifications

Viking C-2000 Advanced Door Entry Controller

Power: 120VAC / 13.8VAC 1.25A, UL listed adapter provided

Dimensions: 210mm x 159mm x 45mm (8.25" x 6.25" x 1.75")

Shipping weight: 1.5kg (3.2 lbs.)

Environmental: 0°C to 32°C (32°F to 90°F) with 5% to 95% non-condensing humidity

Relay Contacts: 5A @ 30VDC/250VAC

Ring Output: 8 REN, capable of ringing (8) 1 REN phones

Talk Battery: 40V DC

Connections: (46) cage clamp screw terminals



Viking C-2000 Advanced Door Entry Controller

Viking E-10 / E-20 (EWP) Speaker Phones

Power: Telephone line powered (18 VDC/20mA minimum)

E-10 Dimensions: Overall: 127mm x 127mm x 57.2mm (5" x 5" x 2.25"), Rough-in box: 102mm x 102mm x 57mm (4" x 4" x 2.25")

E-20A Dimensions: 140mm x 115mm x 38mm (5.5" x 4.5" x 1.5")

Shipping Weights: E-10: 0.91 kg (2 lbs), E-20A: .75 kg (1.5 lbs)

Standard E-10/E-20A Environment: -26° C to 54° C (-15° F to 130° F) with 5% to 95% non-condensing humidity

E-10/E-20A-EWP Environment: -26° C to 54° C (-15° F to 130° F) with up to 100% condensing humidity

Speaker Volume: Approximately 70db maximum @ 1m

Ring Voltage: 30V AC RMS minimum

CPC Disconnect Time: 300ms minimum

REN: 0.7A

Standard Connections: (1) 2-position terminal block

EWP Connections: (2) gel-filled butt connectors



Viking E-10 / E-10 EWP Speaker Phone



Viking E-20 / E-20 EWP Speaker Phone

Viking E-30 / E-30 EWP Speaker Phone

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



Viking E-30 / E-30 EWP Speaker Phone

NOTE: Refer to the Viking website for a full listing of door entry systems available. This application note only covers a few of the products offered. <http://www.vikingelectronics.com>



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