![VALCOM - Potter Global Technologies]

ezIP DOORPHONE / INTERCOM
EZ-DIBR

INTRODUCTION

The EZ-DIBR IP Talkback DoorPhone / Intercom allows communication to Valcom ezIP Page Controllers, ezIP Interactive Consoles and SIP based telephone systems via an IP-based network.

SPECIFICATIONS

Access Methods

- SIP – enabled telephone system
- ezIP Page Controller
- ezIP Interactive Console
- Valcom ezIP Multicast Page Group

Features

- Vandal-resistant stainless steel faceplate
- 1 Form C relay
- Network activity LEDs
- Power over Ethernet (PoE) 802.3af compatible
- Upgradable to full Valcom VIP speaker functionality

Dimensions/Weight:

EZ-DIBR

- 4.5" H x 4.5" W x 1.75" D
  (11.43cm H x 11.43cm W x 4.45cm D)
- Weight: 1.68 lbs. (0.76 kg)

Network Interface

- 1.62" H x 5.63" W x 3.45" D
  (4.11 cm) x (14.30 cm) x (8.73 cm)
  with brackets – 8.22" W (20.87 cm)
- Weight: 2.10 lbs. (0.95 kg)

EZ-DIBR   Network Interface

Nominal Specifications

Input Impedance:	600 Ohms
Input Level:	-10dBm
Output Impedance:	600 Ohms
Output Level:	-10dBm nominal
Relay Current:	1 AMP @ 24VDC

Nominal Power Requirements
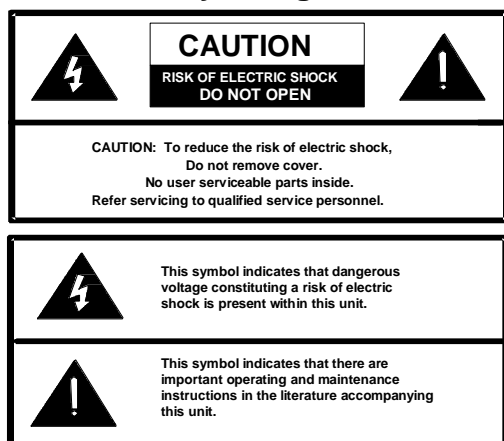**Via 802.3af PoE Ethernet Switch:**   Class 3

Environment

Network Interface:

Temperature:	0 to +40° C
Humidity:	0 to 85% non-precipitating

Indoor installation only

EZ-DIBR Speaker Door plate:
Suitable for indoor or outdoor installation

Precautionary Designations

FCC Information

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates uses and can radiate radio frequency energy and if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area may cause harmful interference in which case the user will be required to correct the interference at his own expense.

INSTALLATION

Operation:

The EZ-DIBR provides door intercom access via network connection to customer telephone system, Valcom ezIP Page Controller or Valcom ezIP Interactive Console. Interface to customer telephone system can be via SIP registration to a voice over IP (VoIP) telephone system, or FXO or FXS port (when used with an ezIP Page Controller). Pressing the call button on the door plate initiates a call to a user-specified telephone number and the call assurance LED on the door plate begins to flash. When the call is answered, a hands-free communications path is established to the door plate, and the call assurance LED on the door plate remains lit. The form C relay included with the EZ-DIBR may be activated by pressing the # key on the answering telephone, with the relay typically being used to activate door entry equipment.

Mounting

For enhanced protection against static electrical discharge, it is recommended the speaker faceplate shipped with the EZ-DIBR be installed into a grounded electrical box.

The EZ-DIBR DoorPhone is designed for double gang FD electrical box mounting and must be within 900 feet of the Network Interface. See NEMA OS 3-2002 sec.1.2.3.5 for FD box specifications.

The Network Interface is designed for wall mounting and must be within 100 meters of the network switch. Using the wood screws and mounting brackets provided, secure the Network Interface to the wall.

Power Connections

The only method of powering the Network Interface is via a Power over Ethernet (PoE) switch or power injector meeting the 802.3af specification.

Make all required signal connections before connecting to Ethernet switch or power injector meeting the 802.3af specification.

Network Connection

The Network Interface has one RJ-45 Network connector and one RJ-45 Signal Output connector on the front panel.

Use a standard Ethernet patch cable to connect the NETWORK connector of the Network Interface to an Ethernet switch.

Signal Connections

Connect RJ-45 using EIA/TIA 568B Standard to the signal connector of the Network Interface then to the RJ-45 connector of the EZ-DIBR DoorPhone.

Door Relay Connections

Access to the form C relay is provided via a three-pin screw terminal block on the EZ-DIBR DoorPhone speaker assembly. The common contact is the middle terminal. The normally open contact is on the side closest to the RJ-45 connector, the normally closed contact is on the side furthest from the RJ-45 connector. For higher security, the included VIP172-RLY connection block can be used. Please refer to Figure 2 for wiring connections.

Status Indicator Lights

The EZ-DIBR DoorPhone is equipped with a status indicator LED. LED flashes when the call button is pressed and steady when the call is connected.

The EZ-DIBR Network Interface has 2 status indication lights on the front panel:

Green LED: (Link) Indicates Ethernet connection when illuminated.

Yellow LED: (Activity) Indicator flashes to indicate network activity.

SETUP

Information specific to your application will need to be programmed into the EZ-DIBR using a computer. The PC used for programming should be connected to the same subnet as the EZ-DIBR. Setup will be done using the Valcom IP Solutions Setup Tool. Download the latest version of the free IP Solutions Setup Tool from the Valcom web site at www.valcom.com/vipsetuptool

TECHNICAL ASSISTANCE

Assistance in troubleshooting is available from the factory. Call (540) 563-2000 and press 1 for Technical Support or via email at support@valcom.com.

When requesting assistance, you should include all available information. General information and troubleshooting procedures are available on the Valcom website at www.valcom.com.Valcom equipment is not field repairable. Valcom, Inc. maintains service facilities in Roanoke, VA.

Should repairs be necessary, attach a tag to the unit clearly stating your company name, address, phone number, contact person and the nature of the problem.

Send the unit to:

Valcom, Inc.
Repair & Return Dept.
5614 Hollins Road
Roanoke, Va. 24019-5056

WARRANTY
Warranty information may be found on our website at www.valcom.com/warranty.

9471000

FIGURE A

NETWORK INTERFACE

NETWORK — Step 3

Step 1

Step 2

EZ-DIBR DOOR PLATE

N/C
COM
N/O

SIGNAL OUTPUT

← 900' MAXIMUM DISTANCE →

EZ-DIBR Quick Start Installation

Step 1. An optional relay output is provided for activating electric door controls, strike plates, gates, etc. A Normally Open (NO) and Normally Closed (NC) connection is available. Consult the door equipment manufacturer's documentation for connections to their device. The relay can be activated by pressing the # key on the answering telephone.

Step 2. Connect the Door Phone to the Network Interface. If the Door Phone is close to the Network Interface, a standard Patch Cable may be used to connect between them (Figure A). For longer distances, the VM-186 RJ45 Junction Boxes can be used to extend up to 900' between the Door Phone and Network Interface (Figure B).

Step 3. Connect the RJ45 cable from the network. This device is powered via Power over Ethernet (PoE). If PoE is unavailable from the network switch then an inline power injector will be required.

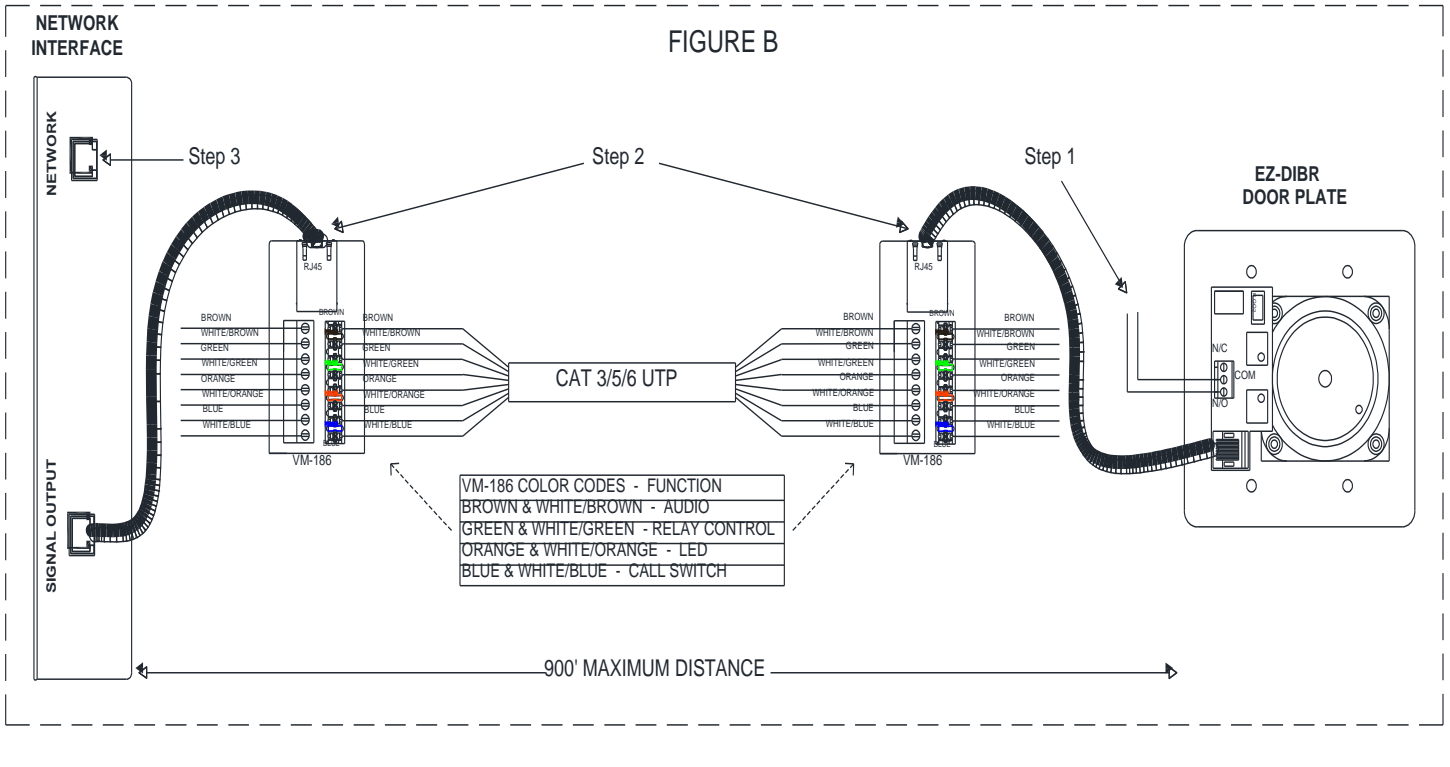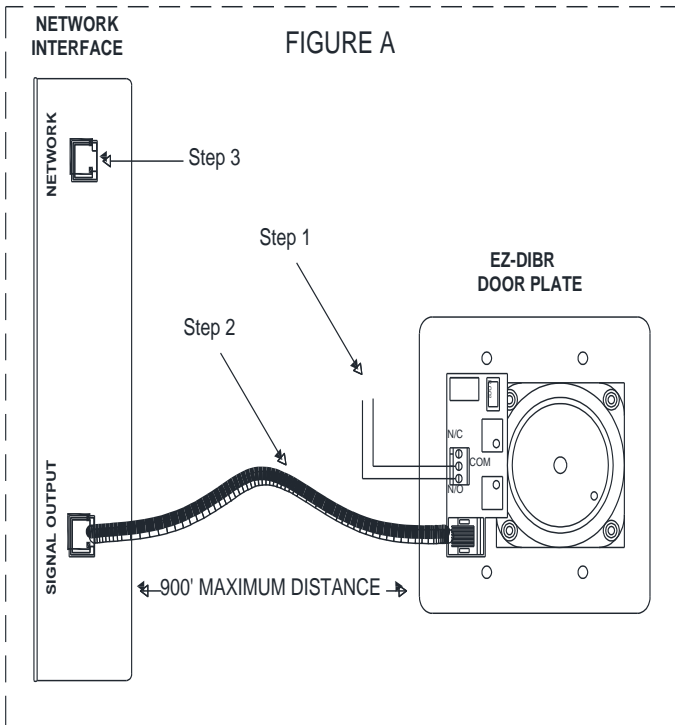Step 4. Program the EZ-DIBR using the VIP-102B IP Solutions Setup Tool.

FIGURE B

NETWORK INTERFACE

NETWORK — Step 3

Step 2

Step 1

EZ-DIBR DOOR PLATE

RJ45

BROWN
WHITE/BROWN
GREEN
WHITE/GREEN
ORANGE
WHITE/ORANGE
BLUE
WHITE/BLUE

VM-186

CAT 3/5/6 UTP

BROWN
WHITE/BROWN
GREEN
WHITE/GREEN
ORANGE
WHITE/ORANGE
BLUE
WHITE/BLUE

RJ45

VM-186

N/C
COM
N/O

SIGNAL OUTPUT

VM-186 COLOR CODES - FUNCTION
BROWN & WHITE/BROWN - AUDIO
GREEN & WHITE/GREEN - RELAY CONTROL
ORANGE & WHITE/ORANGE - LED
BLUE & WHITE/BLUE - CALL SWITCH

← 900' MAXIMUM DISTANCE →

Figure 1. Quick Start Installation

9471000

EZ-DIBR High Security Relay
Quick Start Installation Guide

EZ-DIBR NETWORK INTERFACE

900' MAXIMUM DISTANCE

NETWORK

Step 4

Step 2

EZ-DIBR DOOR PHONE

Step 3

Pin 8

BROWN
WHITE/BROWN
GREEN
WHITE/GREEN
ORANGE
WHITE/ORANGE
BLUE
WHITE/BLUE

Pin 1

NIC
COM
N/O

Step 1

SIGNAL OUTPUT

NO = NORMALLY OPEN
COM = COMMON
NC = NORMALLY CLOSED

VIP172-RLY

Step 1. An optional relay output is provided for activating electric door controls, strike plates, gates, etc. A Normally Open (NO) and Normally Closed (NC) connection is available. Consult the door equipment manufacturer's documentation for connections to their device. The relay can be activated by pressing the # key on the answering telephone.

Step 2. Connect the Door Phone to the VIP172-RLY with standard CAT5 T568A or T568B straight-through cabling.

Step 3. Connect the punchdown block on the VIP172-RLY to the SIGNAL OUTPUT on the Network Interface with standard CAT5 cabling. RJ-45 connector at Network Interface should be wired using T568B standard.

Step 4. Connect the RJ45 cable from the network. This device is powered via Power over Ethernet (PoE). If PoE is unavailable from the network switch then an inline power injector will be required.

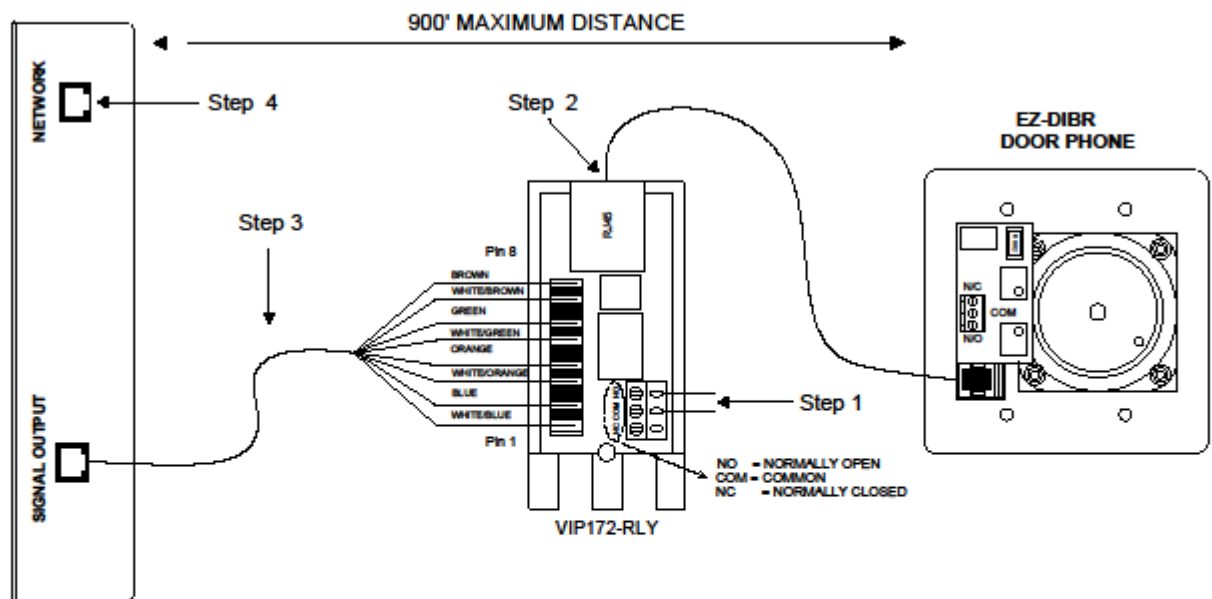Step 5. Program the EZ-DIBR using the VIP-102B IP Solutions Setup Tool.

The VIP172-RLY External Relay adapter increases security for door unlock mechanisms. By installing the VIP172-RLY in a protected area, the relay connections can be protected from tampering. When installed inline as shown in this drawing, the relay connections on the Door Phone are not functional.

Figure 2. Higher Security Wiring Connections