⊕ AIPHONE®

RY-IP44
Input/Output Network Adaptor

Programming Manual
For use with the IPW-1A

ATTENTION:

This manual is for programming the RY-IP44 with the IPW-1A only. Refer to the IPW-1A Installation and Operation Manuals for complete installation/programming information.

For instructions featuring the RY-IP44 with the IX2 Series, visit www.aiphone.com/IX2-RYIP44
For instructions featuring the RY-IP44 with the IS IP Series, visit www.aiphone.com/ISIP-RYIP44

Package Contents

- RY-IP44
- Programming Manual
- 6 Screw Terminal Blocks
- MAC Address Label

Installation Requirements

- General understanding of IPW-1A programming
- 9-30V DC power supply (sold separately)
- Unique IP address for each adaptor

Overview / Description

The RY-IP44 is a Barix Barionet 50 with proprietary firmware installed for the device to function with the Aiphone IPW-1A system.

The 4 relay outputs can be programmed to trigger for door release, while calling, while communicating, or while calling and communicating.

The RY-IP44 is not a PoE device and requires a dedicated 9-30V DC power supply. Use the Aiphone PS-1208UL power supply (sold separately).

Configuring the RY-IP44 *(assigning IP address and system use)*

The RY-IP44 has a default IP address of 192.168.1.45. Open a web browser and point the address bar to **192.168.1.45** for access to the adaptor. The first screen to appear will be the **Device Status** screen.

Configuration button

Digital input status

Relay status and control.
Click on each LED to verify relay function.

Click the **CONFIGURATION** button to open the **Device Configuration** screen. This is where a unique **IP Address**, **Netmask**, and **Gateway** can be assigned to the adaptor. Consult with your IT department for these settings.

Settings not utilized for Aiphone functionality. Do not adjust.

AIPHONE: Select the Aiphone system type the relay is to be used with.

SECURITY: For creating a password for access to the web browser interface.

Enter new IP Address if default is not to be used.

Configuring the RY-IP44 *(continued)*

The Aiphone system type that the adaptor is being integrated with will need to be selected. Click the **AIPHONE** tab. Use the drop down by **System Type** to select the IPW-1A system. Enter a **UDP Protocol Port** number or leave at 0 to use the default (1724). When done, click OK. Click **Reboot** on the next screen to restart the adaptor.

System Type: Select IPW-1A

UDP Protocol Port: Enter "0" if default port (1724) is to be used. Port 1724 is the default port on the IPW-1A stations for UDP messaging.
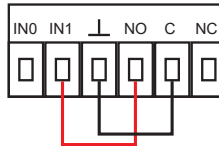
Relay Output Programming

The RY-IP44 has 4 relays that can be programmed to trigger while calling, while in communication, or while calling and communicating with a specific door station. The relays can also be programmed for door release.

Relay Action options:
- Door Release - Normally-Open
- Door Release - Normally-Closed

} *Relay will trigger when the PC master station pushes the door release button.

- Active while Calling from source
- Active while in Communication with source
- Active during Calling and Communication

} Relay will trigger when the associated door station calls or communicates.

- Active While Any Station Calling } Relay triggers when any station calls. No assignment required.

   * When using the RY-IP44 for door release, the relay on the IPW-1A must be set to door release and the relay must be jumpered to the sensor input as shown below.

From the **Device Configuration** screen, click **APPLICATION SETUP**.

Application Setup button

Relay Output Programming *(continued)*

Enter the Station ID for the IPW-1A to be associated with each relay on the RY-IP44. Select the relay condition from the **Relay Action** drop down menu. When done, click on **Apply Settings**. Click **Reboot** on the next screen to restart the adaptor with the applied settings.

Relay Output Functionality

Relay	Station ID	Relay Action
1	1	Door Release: Normally-Open ▼
2	0	Door Release: Normally-Open
3	0	Door Release: Normally-Closed
4	0	Active While Calling From Source
		Active While Communicating
		Active While Calling From Source And Communicating
		Active While Any Station Calling

Apply Settings   Reset All

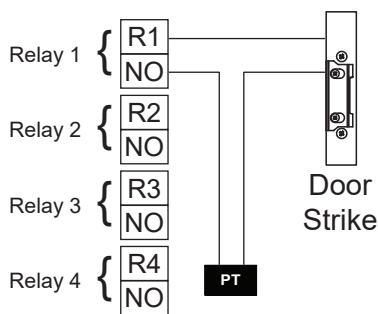## RY-IP44 Dimensions

Depth: 1-1/4"

3-5/16"

4-1/8"

Mounting:

The RY-IP44 adaptor mounts to an Aiphone W-DIN11 mounting rail (sold separately).
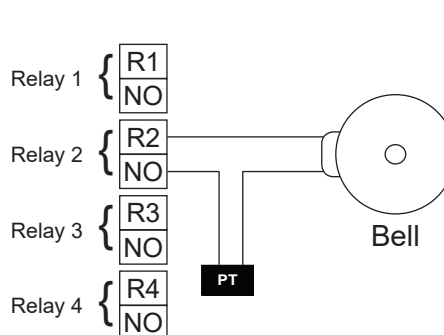
RY-IP44 Wiring

PT = Power Transformer (use proper power for the strike, mag lock, or external signaling device being used).
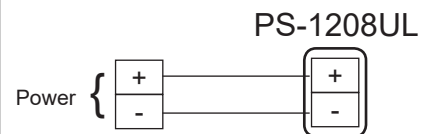
Relay contact rating: 30V DC, 0.5A.

Door release:

Relay 1 { R1 / NO }
Relay 2 { R2 / NO }
Relay 3 { R3 / NO }
Relay 4 { R4 / NO }

Door Strike

PT

External signaling:

Relay 1 { R1 / NO }
Relay 2 { R2 / NO }
Relay 3 { R3 / NO }
Relay 4 { R4 / NO }

Bell

PT

Power:

Use a 9-30V DC (300mA @ 12VDC) power supply to power the RY-IP44 adaptor. Use the Aiphone PS-1208UL power supply (sold separately).

PS-1208UL

Power { + / - }