



HOUSING DEVICES, INC.

ADA - ARCU **Installation & Operations** **Manual**



Made in the USA

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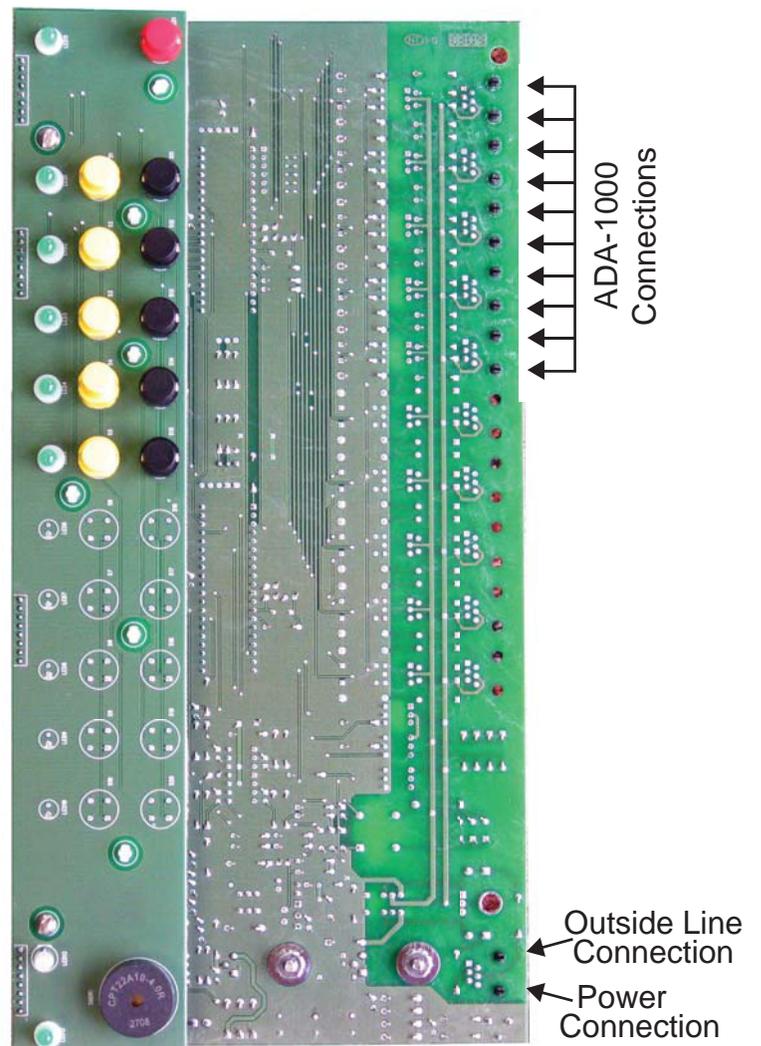
ADA - ARCU 5 & 10

Pre-Installation Requirements:

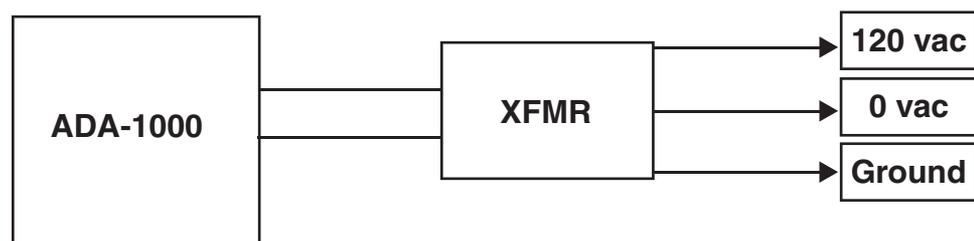
- For each ADA-1000 in the elevator you must run a twisted, shielded, 22 to 24 gauge, 4 wire set down to the ADA-ARCU unit (preferably CAT5 or better). Please make sure to connect the correct color wire at pin 1 on the RJ11 jack at the ADA-ARCU as pin 1 on the RJ11 jack at the ADA-1000 and so on for pin's 2-4
- You must have available a standard analog POTS, PBX or central office line for connection to the ADA-ARCU. If you are installing on a digital phone system you must obtain from the digital provider an ATA-analog telephone adaptor. Make sure they program the ATA with a standard WINK or disconnect signal per FCC and CRTC requirements
- If multiple ADA-1000s are being connected please be sure to program them in "consolidator" mode

Installation:

- Locate suitable mounting location and open ADA-ARCU unit. If surface mount unit punch out conduit knockout for wire runs
- Install either surface mount via 3-mounting screws, cabinet mount or panel mount unit via 4 mounting screws (not included) per standard mounting requirements
- On the back-up power supply battery, connect the red battery wire to the battery
- Connect your analog telephone connection to the appropriate RJ11 connection located on the lower, right side of the circuit board. If a digital phone line make sure an appropriate ATA is installed
- Attach a standard RJ11 jack to each twisted, shielded, 22 to 24 gauge, 4 wire set from the ADA-1000 and plug into the appropriate connection on the ADA-ARCU. Please be sure to attach the correct wire color for pin's 1-4 to reflect the connections at the ADA-1000 in the elevator. Tie the shield ground for each wire set to one of the 3 or 4 mounting screws on the housing. The ADA-1000 connections start at the upper, right hand side of the circuit board and are numbered on the front face
- Plug the power transformer into a 120vac power source and plug into the power connection on the circuit board, located on the lower, right hand side
- Close the ADA-ARCU unit



ADA - ARCU Wiring Diagram

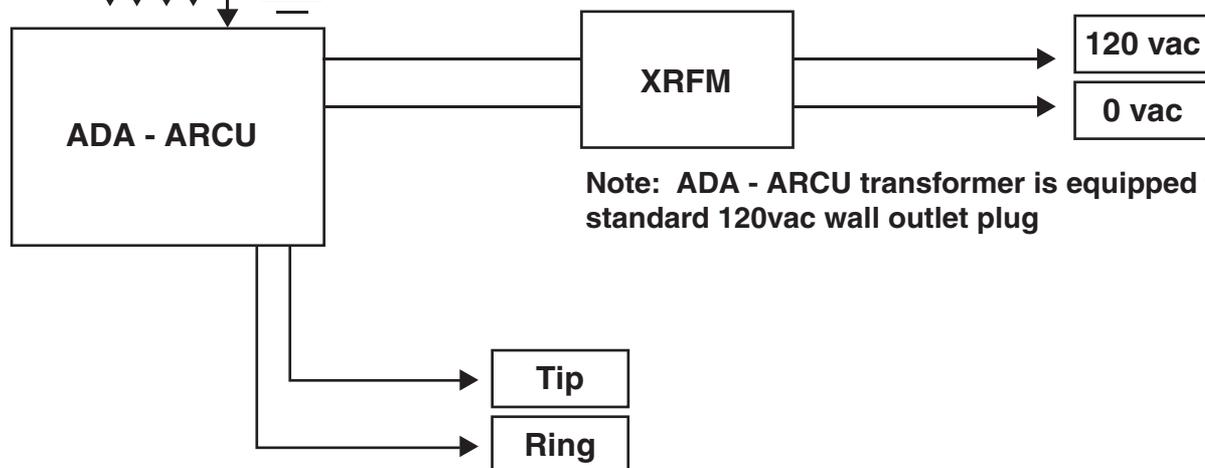


Note: Ground wire is only included on 120vac/24v transformer, 120vac/12v transformer does not have ground wire

Note: If powered from controller's 24vdc supply, transformer is not included, connect (2) black power leads from phone directly to 24vdc supply on controller

Note: Wiring requirements for each ADA-1000 in the elevator

- 1) 22-24 awg, 2 pair, twisted, shielded wire with RJ11 connector on both ends
- 2) Tie both shield grounds together and ground only at one of the ADA - ARCU mounting screws
- 3) If CAT5 or better single shield ground only at one of the ADA - ARCU mounting screws



Note: ADA - ARCU transformer is equipped with standard 120vac wall outlet plug

Note: Tip/Ring are grounded by the Teleco. Our units are not polarity sensitive. Requires RJ11 connector

Programming Options for ADA-1000:

- a. To program ADA-1000(s) in “consolidator” mode
 1. Programming steps
 - a. Press **Enter** to get into program mode
 - b. Press **7, Enter**
 - c. For elevators 1-5; Press *, **1-5**
 - d. For elevators 6-10; Press #, **1-5**
 - e. Press and hold **Stop** for 2-3 seconds until warble sound to exit programming
 - f. Confirm operation by calling phone number ADA-1000(s) are installed on, all phones will answer. To speak with individual phones (elevators 1-5 press ***1, *2, *3, *4 or *5**) or for (elevators 6-10 press #**1, #2, #3, #4 or #5**) to speak with all elevators press ***0**
- b. To program ADA-1000(s) to call the ADA-ARCU first and then if no answer to dial secondary emergency numbers
 1. Programming steps
 - a. Press **Enter** to get into program mode
 - b. Press **1, Enter, Pause, Pause, Pause, Pause, Stop**
 - c. Press **2, Enter, (Phone Number), Stop** (for each additional emergency phone number press **3-5, Enter, (Phone Number), Stop**)
 - d. Press **1, 0, Enter, 4, Stop**
 - e. Press and hold **Stop** for 2-3 seconds until warble sound to exit programming
- c. To program ADA-1000(s) to dial standard emergency numbers
 1. Programming steps
 - a. Press **Enter** to get into program mode
 - b. Press **1, Enter, (Phone Number), Stop** (for additional emergency phone numbers press **2-5, Enter, (Phone Number), Stop**)
 - c. Press and hold **Stop** for 2-3 seconds until warble sound to exit programming
- d. To program Location Message
 1. Programming steps
 - a. Press **Enter** to get into program mode
 - b. To turn on message press **1, 3, Enter, 2** or for no message press **1, 3, Enter, 0**
 - c. Press **6, Record, (Speak your message), Stop** (To replay message press **6, Play**)
 - d. To program frequency of message press **1, 3, Enter, _** (**1**=plays message once; **2**=plays message twice (this is the standard configuration); **3**=plays message until called party presses * on their phone)
 - e. Press and hold **Stop** for 2-3 seconds until warble sound to exit programming



Operation

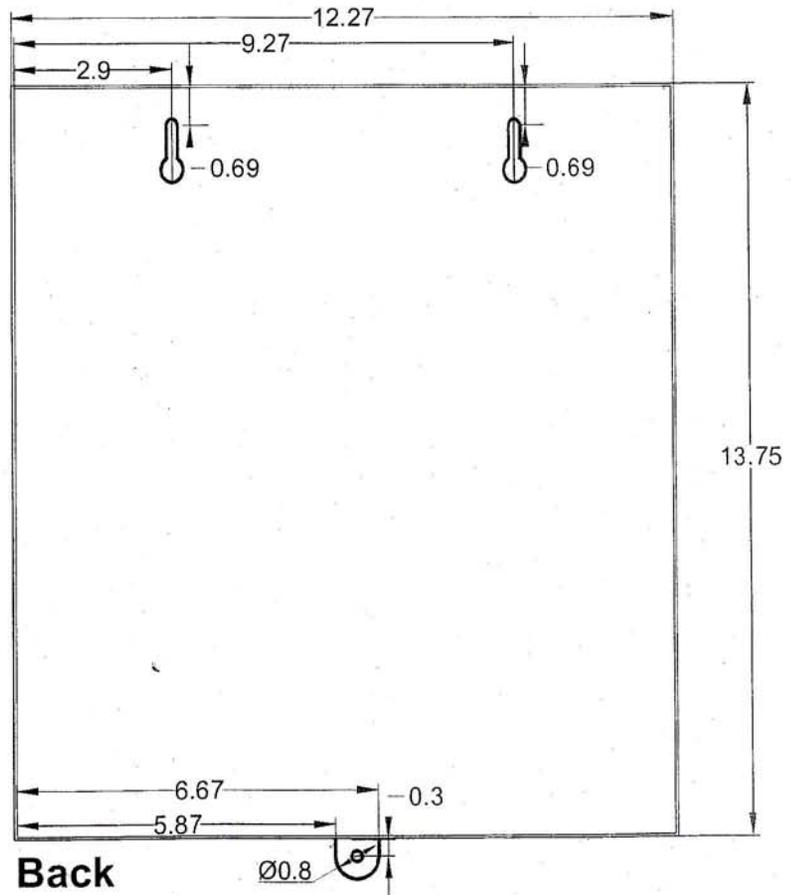
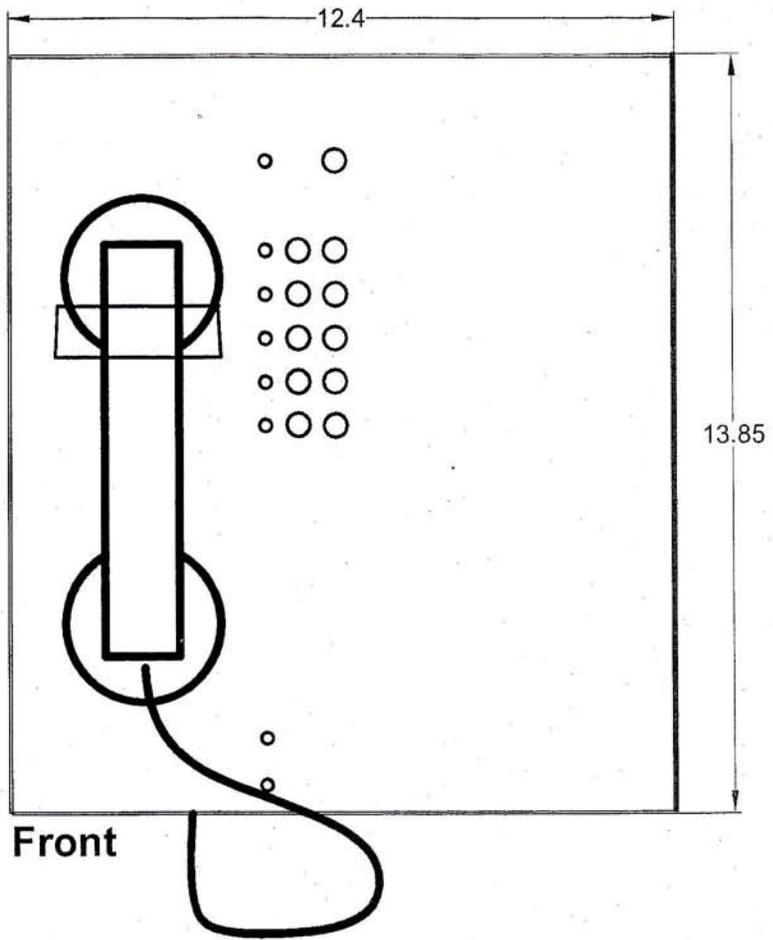
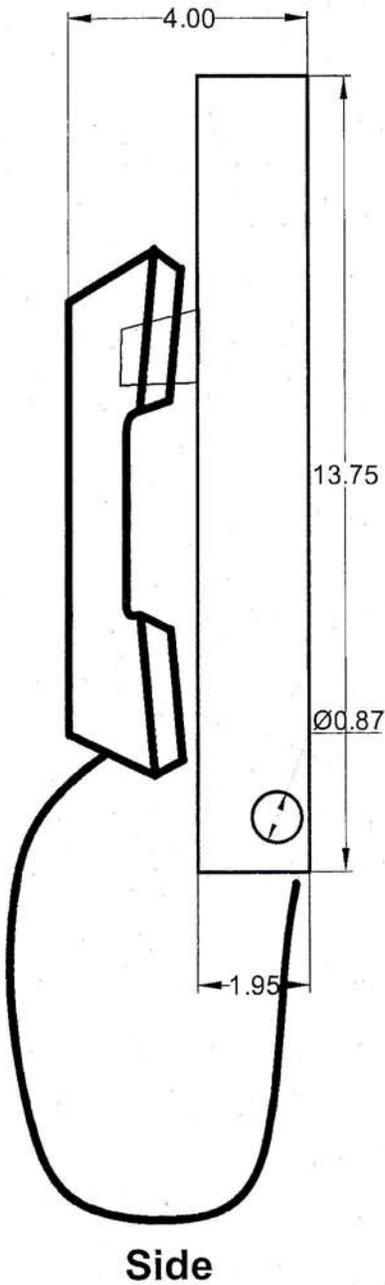
- a. Once all connections are made the following LED's should be lit
 1. Power LED will be constant lit green on bottom edge of face plate
 2. Battery LED will be constant lit either red=low level charge, yellow=mid level charge or green=full charge on bottom edge of face plate

- b. Initiate a call to an elevator
 1. Lift handset on ADA-ARCU
 2. Press the yellow "Talk" button corresponding to the elevator you wish to call into
 3. Green LED will light next to that button
 4. You should have 2 way communication to that elevator
 5. You can place the elevator on hold by pressing the black "Hold" button, to resume communication press the Talk button again

Note: You can talk to all elevators connected to the ADA-ARCU unit at the same time or individually as needed.

- c. Activate a ADA-1000 in one of the elevators
 1. You will hear an alternating audible tone at the ADA-ARCU indicating a call has been initiated by one of the elevator phones
 2. Depending on the elevator phone activated the corresponding green LED will light on the ADA-ARCU unit
 3. The Service's LED will also be lit, located on upper edge of face plate, indicating that the outside line is active
 4. Lift the handset on the ADA-ARCU to join the conversation. If the ADA-1000(s) were programmed to call the ADA-ARCU unit, after you lift the handset you must press the Rescue Service's button to disconnect the outside line. If the ADA-1000(s) were programmed to dial standard numbers follow the directions listed below
 5. To talk, only place the elevator on hold by pressing the corresponding Hold button, to bring them back into the conversation press the Talk button
 6. To disconnect Rescue Service's press the red button at the top edge of the face plate. The Rescue Service's LED will go off and leave you communicating with the elevator(s) only
 7. If you wish to leave Rescue Service's speaking with the elevator(s) just return handset to the cradle

Mounting Dimensions



Troubleshooting

1. Power LED is not illuminated:
 - a. Make sure the transformer is connected to a good 120vac power source
 - b. Make sure power connection on the circuit board is secure
2. Battery LED is not illuminated:
 - a. Battery plug is not connected to circuit board
 - b. Check wire connections on battery
3. No dial tone:
 - a. Analog phone line or digital line with proper ATA is not connected
 - b. Analog or digital phone line is either not active or not providing adequate voltage of 24v to 48v DC
4. Talk or Hold LED's will not illuminate after buttons are pressed:
 - a. Twisted, shielded, 22 to 24 gauge, 4 wire runs are not connected to ADA -1000(s) in elevator
5. LED's periodically blink:
 - a. Noise on phone line. Check shield ground at the ADA - ARCU. Make sure you ran twisted, shielded, 22 to 24 gauge, 4 wire sets (CAT5 or better) from each ADA -1000
6. Constant audible tone:
 - a. Handset is off hook
7. Volume low on handset:
 - a. Adjust volume control on under side of handset
8. Elevator phones dial through but there is no communication between ADA - ARCU and ADA -1000(s):
 - a. Check to be sure proper colored wire is connected between pins 1-4 on the RJ11 jacks both at the ADA -1000 and ADA - ARCU

