

Description

The AR1000PWA module connects to the existing control panels' telephone jack and converts the Contact ID data reports into a format which can be used with the ARDIS communication module.

Specifications

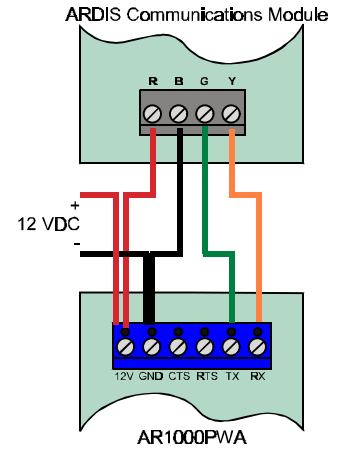
Voltage Range: 9.6 - 15.0 VDC
 Current: 100 mA
 Size: 2 3/4" x 4 3/4" (70 mm x 120 mm)

Mounting

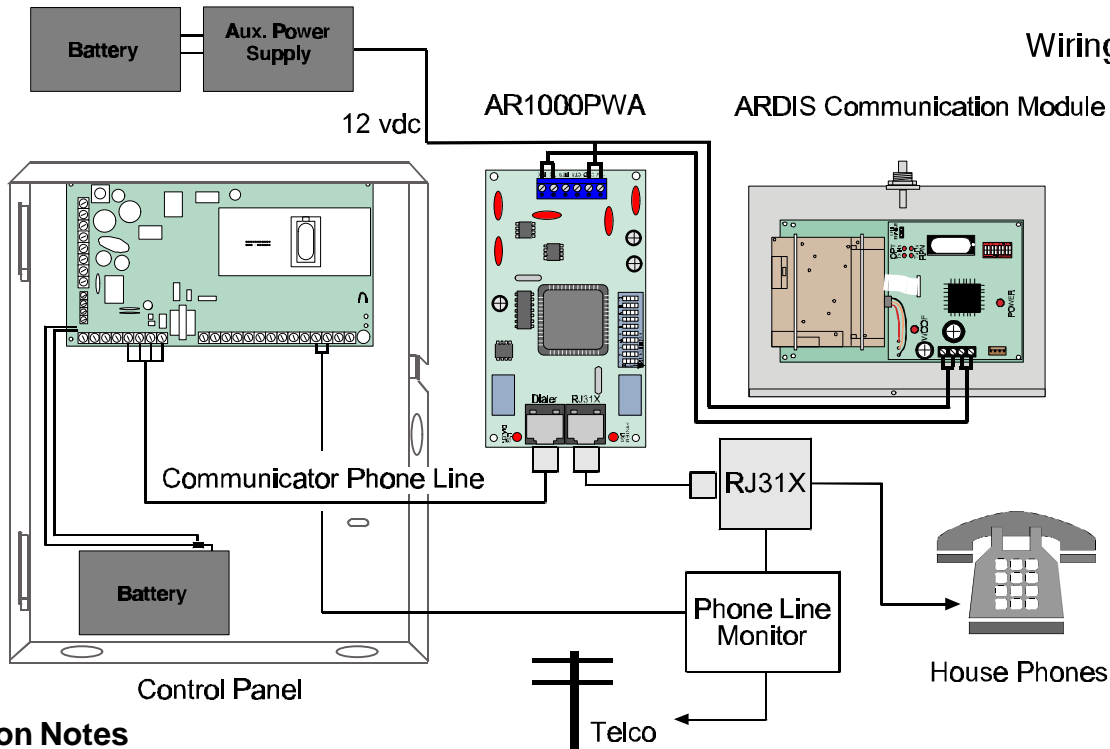
A plastic snap track is provided for mounting to any flat surface.

Wiring

Connect power and data wiring as shown below:



Wiring Detail



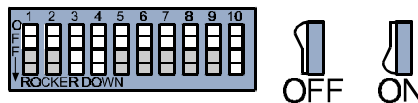
Installation Notes

- The AR1000PWA intercepts the phone line between the service and the panel, thus rendering the panel's phone line monitor inactive. If phone line monitoring is required, an external phone line monitor, such as the Detection Systems Inc. DS7481, should be used.
- Panels with internal phone line monitors may generate an error when attached to the AR1000PWA. Unless the internal phone line monitor can be disabled, do not use the panel with the AR1000PWA.
- The ARDIS Communication Module draws 1.2 amps for 250 ms when transmitting. Therefore, it is recommended that a 12-volt auxiliary power supply be included in the system.
- Expect an approximate 10 minute delay when the modem first initializes contact with the network.
- Currently Dual Protocol modem SSI readings are measured differently from by ARDIS when they communicate on the RDLAP layer (faster) versus the MDC layer (slower). The readings for the RDLAP will be half of those of MDC for the same signal strength. (For example: an MDC modem with an SSI reading of 30 is equivalent to an RDLAP modem with an SSI reading of 15.) ARDIS plans to double all readings given for RDLAP modems.

Dip Switch Settings

Switches S1, S2 and S5 - S9 remain in the OFF position.

S3 OFF = Fallback to telco on intercept error.
 S3 ON = Disable fallback on intercept error.



S4 OFF = Handshake after 1 second of no dial.
 S4 ON = Handshake after 6 seconds of no dial.

S10 OFF = Short Ack time.
 S10 ON = Long Ack Time.

Fallback for Download Feature

Even though the AR1000PWA intercepts messages bound to the phone line from the panel, remote programming software can still be used to modify panel parameters. To do this you must have the proper central station software as well as AR1000PWA ROM version 2.22 or higher and ARDIS Communication Module ROM version 6.00 or higher.

AR1000PWA Troubleshooting

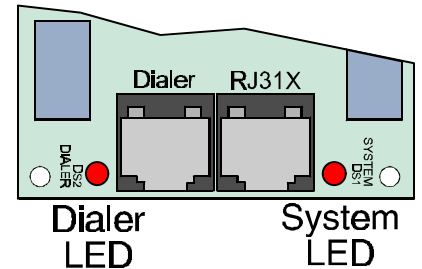
NOTE: Panels must be programmed to communicate in "CONTACT ID" format to work with the AR1000PWA.

LED Descriptions

The LEDs on the AR1000PWA provide a visual display of the operation of the module. The flash rate and/or color of the LEDs will indicate both the normal and trouble conditions in the module.

NOTE: The term "bps" indicates blinks per second.

Blinking Red (Code) indicates a trouble message is being displayed. The trouble display is presented in a Morse code fashion where the LED may be on for a long period (called a dash) or a short period (called a dot). The trouble messages always will consist of a group of four dashes/dots. The term "**Fallback Mode**" indicates that the AR1000PWA is routing panel messages through to the phone line directly. Messages from the panel are not being transmitted via radio. The term "**Intercept Mode**" indicates that the AR1000PWA is routing panel messages through the radio and not through the phone line.



The Dialer LED indicates the status of the digital dialer interface.

- **Green:** The AR1000PWA is in the intercept (ready) mode and the dialer is on hook. This is the normal condition.
- **Blinking Green (5 bps):** The AR1000PWA is on-line with the dialer.
- **Red:** The AR1000PWA is in a two-minute fallback mode due to an error.
- **Blinking Red (5 bps):** The AR1000PWA is in intercept and is waiting for the dialer to go back on hook.
- **Blinking Red (Code):**

Letter	Code	Description
X	dash dot dot dash (-...-)	Dialing exceeded 30 seconds or disconnected while dialing. (May not have an adequate power source.)
F	dot dot dash dot (...·)	Dialer failed to respond to a handshake. (Wrong handshake selected.)
Q	dash dash dot dash (-..-)	Dialer was quiet after the message ack.
B	dash dot dot dot (-...)	Dialer disconnected before receiving the ack. (ARDIS network did not return the ack.)
P	dot dash dash dot (·--·)	Dialer disconnected prematurely without sending second round or end of message.
J	dot dash dash dash (·---)	Unrecognizable message received. (Wrong format selected.)
C	dash dot dash dot (-..·)	Checksum or parity error. (Wrong format selected.)
L	dot dash dot dot (·...)	Length of message was incorrect. (Wrong format selected.)
Z	dash dash dot dot (-...)	Panel seized line but failed to dial.
V	dot dot dot dash (...·)	Validation data was incorrect. (Wrong format selected.)

The System LED indicates the current status of the AR1000PWA.

- **Blinking Green (5 bps):** Indicates that the ARDIS Communication Module is operating normally.
- **Blinking Red (5 bps):** Indicates that the ARDIS Communication Module is not responding. If the dialer seizes the line or if this error persists for more than 30 seconds, the AR1000PWA will go into the fallback mode.
- **Alternating Red/Green:** The ARDIS Communications Module is reporting a carrier detect problem. If this error persists for more than 30 seconds, the AR1000PWA will go into the fallback mode.
- **Blinking Red (1 or 2 blinks every 2 seconds):** A "power on self test" error has occurred. The Dialer LED will have no significance and the AR1000PWA will go into the fallback mode.
- **Steady Green, Red or no LED:** The AR1000PWA is no longer operating or there is insufficient power for operation.

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