Table of Contents

➢ Paging Adapter Hardware Interface
   ▪ 8301 Paging Adapter & Scheduler ........................................6
   ▪ 8373 Zone Paging Adapter ..................................................7
   ▪ Hybrid IP & Analog Infrastructure Integration .......................9

➢ Paging Amplifier Wiring Diagrams
   ▪ Adastra RM60/120/240S with 8301 ....................................11
   ▪ Adastra RM60/120/240S with 8373 ....................................12
   ▪ AT&T/Lucent PagePal with 8301 .......................................13
   ▪ AT&T PagePac 20 PowerMate ...........................................14
   ▪ Bogen C35/C60/C100 with 8301 .......................................15
   ▪ Bogen GS35/GS60/GS100/GS150/GS250 with 8301 ..............16
   ▪ Bogen PCM2000 with 8301 .............................................17
   ▪ Bogen TPU-35/60/100/250 with 8301 ...............................18
   ▪ Bogen TPU-35/60/100/250 with 8373 ...............................19
### Table of Contents

- **Paging Amplifier Wiring Diagrams (continued)**
  - Bogen UTI with 8301 ................................................................. 20
  - Crown 135MA/160MA with 8301 ............................................... 21
  - Crown CDI 1000/2000/4000 with 8301 ................................... 22
  - Inter-M PA-920/935 with 8301 ................................................. 23
  - TOA 500 Series with 8301 ......................................................... 24
  - TOA BG-2035/2060/2120 with 8301 ......................................... 25
  - Valcom V-2000a with 8301 ....................................................... 26
  - Valcom V-2001a with 8301 ....................................................... 27
  - Valcom V-2003a with 8301 ....................................................... 28
  - Valcom V-2006a with 8301 ....................................................... 29
  - Valcom V-9940 with 8301 ....................................................... 30
  - Valcom V-9941A with 8301 ...................................................... 31
Table of Contents

Paging Amplifier Wiring Diagrams (continued)

- Valcom V-1094A with 8301 .......................................................... 32
- Valcom V-2924A with 8301 .......................................................... 33
- Valcom VIP-801A with 8301 .......................................................... 34
- Viking PA-2A with 8301 .............................................................. 35
- Viking PA-15 with 8301 .............................................................. 36
- Viking PA-60 with 8301 .............................................................. 37
Paging Adapter
Hardware Interface
8301 Paging Adapter & Scheduler

- SIP (50 Page ext., 10 Emergency Alert ext. & 10 Ring ext.)
- Multicast Send & Receive
- Scheduler for Automated Tones & Announcements
- 1GB Memory
8373 Zone Paging Adapter

- SIP (50 Page ext.)
- Switches up to 280W using one 70V amplifier
- Multicast Send & Receive
8373 Zone Paging Adapter

Front View

Rear View
Hybrid IP & Analog Infrastructure Integration

- Simultaneous Line Level Output to Amplifier
- SIP Call
- Simultaneous Multicast To Speakers, Strobes & Phones

Analog Amplifier & Speakers
Paging Amplifier Wiring Diagrams
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

Recommended: use an aux cable and strip the leads on one end. Connect the positive and negative (usually red and black) terminals to the Line Out. 

To connect the other end to the amplifier input Mic/Line 2, use a 3.5 mm to 6.3 mm adapter.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)".

Recommended: use an aux cable and strip the leads on one end. Connect the positive and negative (usually red and black) terminals to the Line Out.

To connect the other end to the amplifier input Mic/Line 2, use a 3.5 mm to 6.3 mm adapter.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

Set the PagePal to DL (Dry Loop) mode using the switch in the front.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)".
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

Set the switch to the “TEL” position 

Ensure JP1 Phantom Power Jumper is in the OFF position
Before connecting, power off PCM2000 system. Set the dip switch as demonstrated above (CC switch down and P/P switch middle).

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”.

To play DTMF tones and control the zones, make sure to enable Generate In-Band DTMF Tones (Advanced Settings -> Advanced Audio).
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

The Bogen Amp
Dedicated audio output available standard on most telephone systems
- Can be connected directly to the input of most amplifiers
- Traditionally, a 600-ohm dry audio signal and a normally open control contact closure
- Control contacts, if available, activate during a page and typically control the muting of background music

The Algo 8301 Typical application:
The Algo 8301 paging adapter and scheduler is used to connect an existing amplifier to UC environment as a SIP extension or a multicast endpoint
- Line output of the 8301 is connected directly to the dry audio input of the amplifier with input impedance between 600 Ohm and 10 kOhm
- For amplifiers connected directly to the dry page port of an existing telephone system, the 8301 will provide a very similar interface providing both dry page audio and dry contact closure to activate the amplifier (if required).
- For amplifiers connected to a FXS port or ATA through a “telephone answering device” the 8301 will replace the answering device and eliminate the need for a FXS port or ATA.
On the 8373 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)".

The 8373 is designed to provide a Line Out for audio to a traditional amplifier.

Loop the power of the amplifier into the 8373 to switch up to 280w into 1-3 audio channels.

The speaker runs will be connected to the channel outputs on the 8373.
Set the horizontal switch to “CONT” and the vertical to “Page Port”.

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”.
8301 Installation Example with Crown 135MA/160MA

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBv 10k (1.0 Vrms)”. Set switch 1 to “Line” position.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “+4dBu 10k (1.23 Vrms)”.  

*Note: Channel 1 or 2 may be used.*
8301 Installation Example with Inter-M PA-920/935

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”. 

Set the Phantom switch above the input to the off position.

Recommended: Algo 2504 Output XLR-Mini Female to XLR Male
8301 Installation Example with TOA BG-2035/2060/2120

Set the DIP switches as per below:

Function Switches A (upper terminal)
• Switch 2 – Off
• Switch 4 – On

Function Switches B (lower terminal)
• DIP Switch 2 – On

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-20dBm 600 ohm (0.077 Vrms)”. 
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”. 

Set the Battery Feed switch off before connecting the 8301.
8301 Installation Example with Valcom V-2001a

The 8301 Line Out (terminal 3 and 4) connects to either the Tip and J3) using an RJ11 modular connector or the Page T and Page R inputs on the Valcom V-2001A via a 2-wire connection to the terminal strip.

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”. 
On the Valcom V2003a switch SW3, set 4, 7 and 10 to the off position (up position). Also set SW2 to off position.

On the 8301 web interface, go to Basic Settings > Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”.

To play DTMF tones and control the zones, make sure to enable Generate In-Band DTMF Tones (Advanced Settings -> Advanced Audio).
Set the Battery Feed switch to the off position for Page Port access on the V2006a.

On the 8301 web interface, go to Basic Settings > Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”. To play DTMF tones and control the zones, make sure to enable Generate In-Band DTMF Tones (Advanced Settings > Advanced Audio).
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-20dBm 600 ohm (0.077 Vrms)”. 

Ensure that only DIP Switches 1 and 8 are ON. If the device is not working try turning DIP Switch 1 OFF.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

Note there will be no talk back from the Valcom speakers.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

8301 Installation Example with Valcom V-1094A
On the 8301 web interface, go to Basic Settings > Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”. 

To play DTMF tones and control the zones, make sure to enable Generate In-Band DTMF Tones (Advanced Settings -> Advanced Audio).

Set the Battery Feed switch (SW4) to off for Page Port access.

Note there will be no talkback via the Valcom V-2924A.
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “-10dBm 600 ohm (0.245 Vrms)”.
Set DIP switch 4 for talk battery to the OFF position on the PA-2A to prevent damaging the 8301.

On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. 

8301 Installation Example with Viking PA-15
On the 8301 web interface, go to Basic Settings -> Features and set the Line Out Analog Output Level to “0dBm 600 ohm (0.775 Vrms)”. If there are speakers connected to both channels, then an 8301 per channel will be required. One 8301 can be SIP registered and configured to Multicast to the second for zone paging including All Call.
Please contact us if there are additional amplifier models you wish to see included in this guide.

Support (604) 454-3792
support@algosolutions.com