[AN006]

ADVANCED NETWORK DEVICES

Interface to Extron Paging Sensor Input

Version 2.0

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Static Electric Warning

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2

v2.0

OVERVIEW

All AND devices (except the IPSCM and ZONEC units, which do not offer access to the general purpose output signal) can connect to the paging sensor input of the Extron PVS 305 switcher in order to mute the connected Extron Speakers.

CONFIGURATION

The following 2-wire cable will need to be built in order establish a physical connection between one AND device and the Extron switcher.

Paging Sensor Cable Build of Materials		
Manufacturer/Part #	Qty	Description
Molex 50-57-9002	1	Two-position .100" connector housing
Molex 16-02-1125	2	Gold finished female terminal connectors
Alpha Wire 1172C	1	22 AWG, 2-conductor, PVC insulated stranded wire, or similar
TE Connectivity 284506-2	1	Two position 3.5 mm screw pluggable terminal block

1. **Cable Assembly**
   Cut the appropriate length of cable for the installation. Strip one end of the cable and crimp a female terminal connector to each wire, using a Molex crimper # 64016-0201. Slide the two female connectors into the connector housing. The connector will snap into place when inserted properly. Polarity does not matter.

   You also find this two-pin cable assembly available off-the-shelf (e.g., http://www.robotshop.com/300mm-f-f-2-pin-jumper-wire.html). You can cut this cable in half to produce two 6" pigtails. Strip the other end of the cable, insert each wire into the 3.5mm pluggable terminal block, and secure with the screws.

2. **AND Device Connections**
   Plug the two-position .100" connector housing end of the cable onto pins 5 and 6 of the J13 header on the bottom edge of the square controller board in the device, as shown below.

Connection to Controller Board

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3

v2.0

3. **Extron Switcher Connections**
   Plug the terminal block end of the cable into the Paging Sensor input of the PVS 305 switcher.

4. **AND Device Settings**
   Power on the AND device, and access the device's web page to configure the device.

   a. Select **Device Settings → Peripherals**.
   b. In the *GPIO Output Settings* section, set *GPIO 0 Output Oscillation* to "Yes."
   c. Click the *Save Peripherals Changes* button.
   d. Select **Device Settings → Priorities**.
   e. In the *Message and Audio Priorities* Section, set *GPO0* to "Yes" for each of the four priority levels.
   f. Click the *Save Priorities Changes* button.
   g. Reboot the AND device.

5. **Testing and Adjustment**
   Power on the AND device and the Extron Switcher. Adjust the Paging Sensor Sensitivity dial on the front panel of the Switcher to the 9 o'clock position as a starting point. With audio active on the Extron system, send audio to the AND device, and verify the Extron system's audio mutes during the broadcast. Adjust the sensitivity dial as needed.

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4

v2.0