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| **SIMPLWINDOWS NAME:** | Gentner AP400 Mic Setup Controls |
| **CATEGORY:** | Conferencing |
| **VERSION:** | 1.0 |
| **SUMMARY:** | Controls microphone setup parameters on an AP400 |
| **GENERAL NOTES:** | The AP400 operates on a Gentner G-Link bus. Multiple AP units could be placed on the same bus. Each different device on the bus will have a unique unit ID. The module requires a unit ID as the first input. The unit ID has to be the HEX representation of the Unit ID. For example, for a unit ID of 0, the correct input on the module would be 30H. For a unit ID of 1, the correct input on the module would be 31H. |
| | This module controls many of the microphone setup parameters on the AP400. It operates as follows: 1. Choose the microphone to be set up - The Gentner will be polled for the current status of the parameters. 2. Adjust the parameters as desired. They will apply to the selected microphone only |
| **CRESTRON HARDWARE REQUIRED:** | CNXCOM, ST-COM |
| **SETUP OF CRESTRON HARDWARE:** | Tested and verified at the following settings: |
| | Baud Rate -38400 Parity - None Data Bits - 8 Stop Bits - 1 |
| | RTS and CTS enabled |
| **VENDOR FIRMWARE:** | Version 2.00 |
| **VENDOR SETUP:** | The AP400 serial port settings can be changed. Correct operation was verified when the following RS232 settings were used: |
| | Baud Rate - 38400 Enable Modem - Off Flow control - On |
| **CABLE NUMBER:** | CNSP-141 |

## CONTROL:

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| **UNIT-ID-HEX** | P | Hex version of AP400's unit ID. For ID 0, use 30H. For ID 1, use 31H |
| **MIC-1-4** | D | Used to select which mic will be controlled |
| **MIC-ALL** | D | Used to select all mics to be controlled |
| **ADAPT-EN** | D | Turn on adaptive ambient |
| **ADAPT-DIS** | D | Turn off adaptive ambient |
| **AGC-EN** | D | Enable AGC |
| **AGC-DIS** | D | Disable AGC |
| **CHAIR-EN** | D | Enable chairman override |
| **CHAIR-DIS** | D | Disable chairman override |
| **EC-EN** | D | Turn on echo canceller |
| **EC-DIS** | D | Turn off echo canceller |
| **EQ-EN** | D | Turn on equalizer |
| **EQ-DIS** | D | Turn off equalizer |

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| **MHP-EN** | D | Turn on high pass filter |
| **MHP-DIS** | D | Turn off high pass filter |
| **MLINE-0DB** | D | Set to 0db gain |
| **MLINE-25DB** | D | Set to 25DB gain |
| **MLINE-55DB** | D | Set to 55DB gain |
| **PHANTOM-ON** | D | Turn on phantom power |
| **PHANTOM-OFF** | D | Turn off phantom power |
| **POLL** | D | Poll the AP400 for the state of the currently selected microphone. Can usually be set to 0 since polling is done whenever a new mic is selected |
| **AP400-RX$** | S | Serial data string to be routed from a CNXCOM, ST-COM, or CNXCOM |

## FEEDBACK:

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| **MIC-1-4-FB** | D | Indicates which microphone channel is currently being adjusted |
| **MIC-ALL-FB** | D | Indicates that all microphone channels are being adjusted |
| **ADAPT-EN-FB** | D | Real feedback indicating that adaptive ambient is on |
| **ADAPT-DIS-FB** | D | Real feedback indicating that adaptive ambient is off |
| **AGC-EN-FB** | D | Real feedback indicating that AGC is on |
| **AGC-DIS-FB** | D | Real feedback indicating that AGC is off |
| **CHAIR-EN-FB** | D | Real feedback indicating that chairman override is enabled |
| **CHAIR-DIS-FB** | D | Real feedback indicating that chairman override is disabled |
| **EC-EN-FB** | D | Real feedback indicating that echo canceller is on |
| **EC-DIS-FB** | D | Real feedback indicating that echo canceller is off |
| **EQ-EN-FB** | D | Real feedback indicating that equalizer is on |
| **EQ-DIS-FB** | D | Real feedback indicating that equalizer is off |
| **MHP-EN-FB** | D | Real feedback indicating that high pass filter is on |
| **MHP-DIS-FB** | D | Real feedback indicating that high pass filter is off |
| **MLINE-0DB-FB** | D | Real feedback indicating that 0db gain is set |
| **MLINE-25DB-FB** | D | Real feedback indicating that 25DB gain is set |
| **MLINE-55DB-FB** | D | Real feedback indicating that 55DB gain is set |
| **PHANTOM-ON-FB** | D | Real feedback indicating that phantom power is on |
| **PHANTOM-OFF-FB** | D | Real feedback indicating that phantom power is off |
| **AP400-TX$** | S | Serial data string to be routed to a CNXCOM, ST-COM, or CNXCOM |

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| **.UPZ FILE USED FOR TESTING:** | 5.04.05x.upz |
| **COMPILER USED FOR TESTING:** | SimplWindows Version 1.22 |
| **SAMPLE PROGRAM:** | GAP4TST1 |

**REVISION HISTORY:**                    AP40MICA - Original