

SIMPLWINDOWS NAME: Gentner AP800 Mic Setup Controls

CATEGORY: Conferencing

VERSION: 1.1

SUMMARY: Controls microphone setup parameters on an AP800

GENERAL NOTES: The AP800 operates on a Gentner G-Link bus. Multiple AP800's 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 AP800. 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 0.81B

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:

UNIT-ID-HEX	P	Hex version of AP800's unit ID. For ID 0, use 30H. For ID 1, use 31H
MIC-1-8	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
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 AP800 for the state of the currently selected microphone. Can usually be set to 0 since polling is done whenever a new mic is selected
AP800-RX\$	S	Serial data string to be routed from a CNXCOM or ST-COM

FEEDBACK:

MIC-1-8-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

OPS USED FOR TESTING: 3.18.01

COMPILER USED FOR TESTING: SimplWindows Version 1.20.04

SAMPLE PROGRAM:

GAPTST2B

REVISION HISTORY:

AP80MICA - Original
AP80MICB - Added external OP103
parameter AP80MICC - Removed external
OP103 parameter