

SIMPLWINDOWS NAME: Gentner AP400 Dialer

CATEGORY: Conferencing

VERSION: 1.0

SUMMARY: All Gentner AP400 functions including dialing, presets, mute and privacy

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.

The module uses real feedback from the Gentner unit for hook status, auto-answer status, mute status and privacy status. They should be updated automatically whenever any parameter changes on the Gentner. If it is desired to update the status any other time, the POLL input could be pulsed. This will request the status of all 4 parameters. It should not be done more often than once per 4 seconds.

In normal use, the phone line will be on hook (hung up). A number will be dialed on the keypad, and it will be displayed in the display field. When DIAL is pressed, the phone line will be taken off hook, and the currently displayed number will be dialed. Any additional digits entered after the phone line is off hook will be sent out immediately, and will not be displayed on the touchpanel. This is primarily for voice mail and paging systems.

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: 2.00

VENDOR SETUP: 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 AP400's unit ID. For ID 0, use 30H. For ID 1, use 31H.
AUTO-ANS-ON	D	Turn on auto answer
AUTO-ANS-OFF	D	Turn off auto answer
MUTE-ON	D	Mute incoming audio (room volume)

MUTE-OFF	D	Unmute incoming audio (room volume)
PRIVACY-ON	D	Mute outgoing audio
PRIVACY-OFF	D	Unmute outgoing audio
ON-HOOK	D	Place phone line on hook (hang up)
OFF-HOOK	D	Take phone line off hook (pickup)
FLASH	D	Momentary interruption to phone line connection
NULL-PHONE-LINE	D	Sends a short noise burst down the phone line and forces the AP-400 to adapt
KEYPAD-0-9, *, #	D	Allow the entry of standard touch tone digits
KEYPAD A-D	D	Allow the entry of additional touch tone digits
KEYPAD-PAUSE	D	Insert a pause in the phone number to be dialed. This will be represented as a ,
KEYPAD-CLEAR	D	Clear the phone number currently displayed
KEYPAD-BACKSPACE	D	Backspace one digit
DIAL	D	Dial the phone number currently displayed
PRESET-1-10	D	Store/recall up to 10 speed dial preset numbers. If a preset is pressed while PRESET-STORE-FB is low, the preset number will be recalled. If pressed while PRESET-STORE-FB is high, the number displayed will be stored into the preset
PRESET-STORE	D	To store a preset, enter the number on the keypad, press PRESET-STORE, and then press the preset number.
POLL	D	Used if it is desired to update the state of the Crestron to match the AP400. Updates should happen automatically, so this can usually be defined as 0
LENGTH	P	The maximum length of the phone number to be dialed
AP400-RX\$	S	Serial data string to be routed from a CNXCOM, ST-COM, or CNXCOM

FEEDBACK:

PHONE-NUMBER\$	S	Serial data string containing the phone number entered. Should be routed to a touch panel serial field
AUTO-ANS-ON-FB	D	Real feedback indicating that auto answer is active
AUTO-ANS-OFF-FB	D	Real feedback indicating that auto answer is off
MUTE-ON-FB	D	Real feedback indicating that mute is on
MUTE-OFF-FB	D	Real feedback indicating that mute is off
PRIVACY-ON-FB	D	Real feedback indicating that privacy is on
PRIVACY-OFF-FB	D	Real feedback indicating that privacy is off
ON-HOOK-FB	D	Real feedback indicating that the phone line is on hook (hung up)
OFF-HOOK-FB	D	Real feedback indicating that the phone line is off hook
PRESET-1-10-FB	D	Indicates which preset was last chosen
PRESET-STORE-FB	D	Indicates that store mode is active. Will time out after 5 seconds if a preset isn't pressed first
RING	D	One second pulse whenever a ring is detected on the phone line
		Serial data string to be routed to a CNXCOM,

AP400-TX\$ S ST-COM, or CNXCOM

.UPZ FILE USED FOR TESTING: 50405x.upz
COMPILER USED FOR TESTING: SimplWindows Version 1.22
SAMPLE PROGRAM: GAP4TST1
REVISION HISTORY: AP400DA - Original