

**SIMPLWINDOWS
NAME:**

Polycom VS4000+FX v415 Basic Controls

CATEGORY:

Codec

VERSION:

1.0

SUMMARY:

Provides control of Volume, Privacy, and PIP

GENERAL NOTES:

This module is for control of the Polycom VS4000 and ViewStation FX models only. It will work with Polycom Software version 4.15 FX only. Other releases of Polycom software may cause some functions to stop working.

You can communicate with these systems over RS232 or over TCP/IP. If using TCP/IP, follow the instructions below:

You must open up a Telnet session with the Polycom system. Therefore, you must have a CNXENET+ card installed in your control system to enable communications.

When programming the system in SimplWindows, you should insert a TCP/IP Client object into the ethernet portion of the control system, in the configuration manager. In the program view, use 24D for the PORT parameter field. When it is desired to establish the Telnet session with the Polycom system, assert the CONNECT input on the TCP/IP Client. When the session has been successfully established, the CONNECT-F output will go high. It will then be possible to send commands to the Polycom system. When it is desired to end the Telnet session, de-assert the CONNECT input, and the connection will be dropped.

Commands should only be sent to the TCP/IP Client TX\$ input when the connection is active. Therefore, you should connect the output of this module to the input of a Serial Buffer symbol, which is enabled by the CONNECT-F output of the TCP/IP Client. The output of the Serial Buffer should be connected to the TX\$ input of the TCP/IP Client. See the demo program for an example of this implementation.

Note that before resetting the Crestron system (as happens when you load a new program, power cycle the system, etc), you should end the Telnet session with the Polycom system. If the session is active when the Crestron system resets, the session will not be closed properly, and the Polycom system may need to be rebooted to recover properly.

This module provides control of volume, privacy, PIP, and sleep/wake. True feedback for volume level, Privacy state, and sleep/wake are provided. For this feedback to work properly, you must first use the Initialization Module to enable the real time reporting of volume, privacy, and sleep/wake states.

Note that PIP will only be displayed while a call is in progress.

**CRESTRON
HARDWARE:**

CNXENET+,
CNMSX,
CNXCOM,
ST-COM

**SETUP OF CRESTRON
HARDWARE:**

For TCP/IP:
Install a TCP/IP Client
Use port 23D
Be sure to set up the IP table to specify the IP address

of the Polycom system for the IP ID of the TCP/IP Client. You must do a cold reboot of the control system after changing these parameters.

For RS232:
Baud Rate - 9600
Parity - None
Data Bits - 8
Stop Bits - 1

VENDOR FIRMWARE: Release 4.15 FX
VENDOR SETUP: None
CABLE DIAGRAM: For VS4000 - CNSP-123
For ViewStation FX - T.B.D.

CONTROL:

VOLUME-UP/DOWN	D	Press and hold to adjust the volume up/down
VOLUME-MUTE-*	D	Pulse to turn mute on/off or to toggle mute
PRIVACY-*	D	Pulse to activate/deactivate privacy
PIP-*	D	Pulse to select PIP on/off/auto
Sleep	D	Pulse to activate sleep mode on the Polycom
Wake	D	Pulse to exit sleep mode on the Polycom
From_Device\$	S	Serial signal to be routed to a 2-way RS232 port

FEEDBACK:

VOLUME-LEVEL	A	True feedback indicating the current volume level
VOLUME-MUTE-FB	D	Indicates if the volume level is at 0
PRIVACY-FB	D	True feedback indicating the state of privacy
PIP- *-FB	D	Indicates the last PIP mode activated
Sleep_Fb	D	True feedback indicating the Polycom is in sleep mode
Wake_Fb	D	True feedback indicating the Polycom is not in sleep mode
To_Device\$	S	Serial signal to be routed to a 2-way RS232 port

.UPZ FILE USED FOR TESTING: 5.12.57x.upz, v2.004.cuz

COMPILER USED FOR TESTING: SimplWindows Ver 2.02.11

SAMPLE PROGRAM: Polycom VS4000+FX v415 Demo Program
v40 - Added sleep/wake functions

REVISION HISTORY:
v415 - Identical to v40