

**SIMPLWINDOWS NAME:** CSI HVAC Digital Point Polling

**CATEGORY:** HVAC

**VERSION:** 1.0

**SUMMARY:** Allows a digital point (such as fan status) to be monitored

**GENERAL NOTES:** This module is designed to work with CSI analog data points. A data point is defined for every sensor/actuator on the CSI system. A data point is specified by the following values:

Link - a number from 0-15  
LAN Tap - a number from 0-63  
DCU - a number from 0-63  
Point - a number from 0-31  
Offset - a number from 0-9  
Point types as follows:  
DI = 1  
DA = 2  
DM = 3  
DC = 4  
DO = 5  
AI = 6  
AO = 7  
GI = 8  
GO = 9  
PI = 10

This module works in conjunction with the CSITXRXA module to provide polling of a single CSI digital data point (DI or DO), which has a response of ON or OFF. A separate copy of this module should be used for each analog point desired to monitor. No matter how many copies of this module are used, they will all connect to a single copy of the CSITXRXA module. The module will commonly be used to monitor the status of a fan in a room.

There is a POLL-IN and a POLL-OUT signal on this module. The POLL-OUT should be connected to the POLL-IN on the next CSI module. All modules should have their polling signals looped through each other. The last module in the list can be looped back to the first. It will take 1 second for this module to complete it's polling. These signals will allow each point being controlled or monitored to be polled one at a time.

**CRESTRON HARDWARE REQUIRED:** ST-COM, CNXCOM

**SETUP OF CRESTRON HARDWARE:** Tested at Crestron with the following settings:

Baud Rate - 9600  
Parity - None  
Data Bits - 8  
Stop Bits - 1

**VENDOR FIRMWARE:** PGM 7798 REV 1.00

**VENDOR SETUP:** A CSI tap is required to provide the RS232 connection to the Crestron system. Check with CSI to verify that the tap has an asynchronous RS232 port. Also obtain the cable from CSI which is used to connect the tap to a PC.

Dip switches on the tap should be set to match the baud rate of the Crestron system (9600)

The unit tested at Crestron was a CSI model 7798

**CABLE NUMBER:** CNSP-121

## CONTROL:

<b>LINK</b>	P	Specifies the link on which the desired point is located (0-15)
<b>LAN-TAP</b>	P	Specifies the LAN tap on which the desired point is located (0-63)
<b>DCU</b>	P	Specifies the DCU on which the desired point is located (0-63)
<b>POINT</b>	P	Specifies the point (0-31)
<b>OFFSET</b>	P	Specifies the offset of the point (0-9)
<b>POINT-TYPE</b>	P	Specifies the point type (1-10)
<b>POLL-IN</b>	D	This signal causes the module to poll the CSI system for the state of the selected point. This should be looped through all CSI modules in the system

## FEEDBACK:

<b>POLL-OUT</b>	D	Goes high when the module is finished polling (1 second after it starts). This should be looped through all CSI modules in the system
<b>ON-FB</b>	D	Indicates that the desired point is on
<b>OFF-FB</b>	D	Indicates that the desired point is off
<b>TXRX-READ</b>	D	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-STORE</b>	D	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-VALUE-OUT</b>	A	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-VALUE-IN</b>	A	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-LINK</b>	A	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-LAN-TAP</b>	A	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-DCU</b>	A	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-POINT</b>	A	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-OFFSET</b>	A	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-POINT-TYPE</b>	A	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-NEG-OUT</b>	D	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-NEG-IN</b>	D	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-POS-IN</b>	D	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-DIG-ON-IN</b>	D	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-DIG-OFF-IN</b>	D	Signal to be routed to the corresponding input on the CSITXRXA module
		Signal to be routed to the corresponding input

<b>TXRX-DIG-ON-OUT</b>	D	on the CSITXRXA module
<b>TXRX-DIG-OFF-OUT</b>	D	Signal to be routed to the corresponding input on the CSITXRXA module
<b>TXRX-DIG-STORE</b>	D	Signal to be routed to the corresponding input on the CSITXRXA module

<b>OPS USED FOR TESTING:</b>	3.18.06
<b>COMPILER USED FOR TESTING:</b>	3.18.04
<b>SAMPLE PROGRAM:</b>	CSITSTA
<b>REVISION HISTORY:</b>	None