Partner: Middle Atlantic
Models: Nexsys
Device Type: UPS

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Middle Atlantic Nexsys UPS v1.0
CATEGORY:	UPS
VERSION:	1.0
SUMMARY:	This module controls a single instance of a Middle Atlantic Nexsys UPS via IP. The module supports individual outlet control and bank outlet control depending on what your device is configured for.
GENERAL NOTES:	Supported Models: • UPX-1000R-2 • UPX-1500R-2 • UPX-2000R-2 • UPX-OL1000R-2 • UPX-OL1500R-2 • UPX-OL2000R-2 • UPX-OL3000R-2 • UPX-RLNK-1000R-2 • UPX-RLNK-1500R-2 • UPX-RLNK-2000R-2 • UPX-RLNK-OL1000R-2 • UPX-RLNK-OL1500R-2 • UPX-RLNK-OL2000R-2 • UPX-RLNK-OL3000R-2 • UPX-RLNK-1000R-8 • UPX-RLNK-1500R-8 • UPX-RLNK-2000R-8 • UPX-RLNK-OL1000R-8 • UPX-RLNK-OL1500R-8 • UPX-RLNK-OL2000R-8 • UPX-RLNK-OL3000R-6
CRESTRON HARDWARE REQUIRED:	3-Series or 4-Series processor
SETUP OF CRESTRON HARDWARE:	N/A
VENDOR FIRMWARE:	Network Card Version 1.10.08 and later
VENDOR SETUP:	N/A

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PARAMETERS:

IPAddress	The IpAddress of the UPS.
Username	The Username used to login to the UPS web UI.
Password	The Password used to login to the UPS web UI.

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Certified Module

Partner: Middle Atlantic
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Device Type: UPS

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CONTROL:

Connect	D	Establishes communication with the device and starts the initialization of the module.
Disconnect	D	Stops communication with the device.
Debug	D	Set high to enable debug mode in the module. While enabled, verbose debug and error code output will be printed to the control processor console.
Enable_Detail_Polling	D	Set high to enable polling for device details and buzzer state.
Enable_Alarm_Polling	D	Set high to enable polling for alarm states.
Buzzer_Enable	D	Pulse to enable the buzzer alarm.
Buzzer_Disable	D	Pulse to disable the buzzer alarm.
Buzzer_Silence	D	Pulse to silence current alarm until next alarm condition.
Enable_Outlet_Polling	D	Set high to enable polling for outlet states.
Outlet_Power_On_X	D	Pulse to power on the outlet or power bank.
Outlet_Power_Off_X	D	Pulse to power off the outlet or power bank.
Outlet_Power_Cycle_X	D	Pulse to cycle power of the outlet or power bank. The cycle time is based on the Cycle Time A input.
Outlet_Cycle_Time_X	A	Set time in seconds it takes to complete a cycle. If no signal is defined the default of 1d will be used. Range: 1 – 60d
Outlet_Name_X	S	Set the name of the outlet or power bank on the UPS. Note: Only strings without spaces will be accepted by the UPS.
Restart_UPS	D	Pulse to restart the UPS after the delay.
Restart_Delay_Time	A	Set the time in minutes to delay before restarting the UPS. If no signal is defined the default of 1d will be used. Range: 1 – 360d

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FEEDBACK:

Is Communicating	D	Indicates the module is communicating with the device when the signal is high, or not communicating when the signal is low.
Is Initialized	D	Indicates the module is synchronized with current device state when the signal is high, or not synchronized with current device state when the signal is low.
Model Number	S	The model number as reported by the UPS.
S Number	S	The S number as reported by the UPS.
Firmware Version	S	The firmware version as reported by the UPS.
MAC Address	S	The Mac address as reported by the UPS.
Output Status	S	The output source as reported by the UPS.
Output Voltage	S	The output voltage as reported by the UPS.
Output Current	S	The output current as reported by the UPS.
Output Power	S	The output power as reported by the UPS.
Input Voltage	S	The input voltage as reported by the UPS. (Voltage)
Input Current	S	The input current as reported by the UPS. (Amperage)
Input Power	S	The input power as reported by the UPS. (Wattage)
Battery_Condition	S	Battery condition as reported by the device: Good, Weak or Replace.
Battery_Status	S	Battery status as reported by the device: OK, Low or Depleted.
Battery_Charge	S	Battery charge as reported by the device: Unknown, Charging, Resting, Discharging.
Battery_SecondsOnBattery	S	Seconds on battery as reported by the device.
Battery_EstMinRemaining	S	Estimated time from backup to low battery shutdown as reported by the device.
Battery_InternalTemperature	S	Internal temperature as reported by the device in degrees Celsius.
Battery_BatteryLevel	S	Battery level as reported by the device. (Percentage value 0-100 as string)
Battery_BatteryVoltage	S	Battery voltage as reported by the device. (Voltage)
Battery_BatteryCurrent	S	Battery current as reported by the device. (Amperage)
Battery_LastReplacementDate	S	The last replacement date as reported by the device. (YYYYMMDD)

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Battery_NextReplacementDate	S	The next replacement date as reported by the device. (YYYYMMDD)
Over_Temperature	D	High indicates over temperature.
Overload	D	High indicates overload.
Output_Off	D	High indicates output off.
UPS_Shutdown	D	High indicates shutdown.
Charger_Fail	D	High indicates charger failed.
Fan_Fail	D	High indicates fan fault.
Fuse_Fail	D	High indicates fuse fault.
Battery_Ground_Fault	D	High indicates ground fault.
Battery_Fault	D	High indicates alarm state.
Buzzer_Enabled_FB	D	High indicates that the buzzer alarm is enabled.
Buzzer_Alarm_FB	D	High indicates that the buzzer is alarming.
Over_Temperature	D	High indicates over temperature.
Outlet_Count_FB	A	The number of controllable outlets as reported by the UPS.
Outlet_Power_X_FB	D	High when the outlet is on. Low when the outlet is off.
Outlet_Cycle_Time_X_FB	A	The time it takes to complete a cycle. Default is 1d or as set on the corresponding module input. Range: 1 – 60d
Outlet_Name_X_FB	S	The name of the outlet as reported by the UPS.
Restart_Delay_Time_FB	A	The time in minutes to delay before restarting the UPS. If no signal is defined on the corresponding input, the default of 1d will be used. Range: 1 – 360d

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TESTING:

OPS USED FOR TESTING:	CP4 v2.8003.00049.1 CP3 v1.8001.5362.29861
SIMPL WINDOWS USED FOR TESTING:	4.28
CRES DB USED FOR TESTING:	223.05
DEVICE DATABASE:	200.330
SYMBOL LIBRARY USED FOR TESTING:	1199
SAMPLE PROGRAM:	Middle Atlantic Nexsys v1.0 Demo CP3.smw
REVISION HISTORY:	v1.0 – Initial Release