Partner: SnapAV
Model: Wattbox
Device Type: Surge Protector

GENERAL INFORMATION

SIMPLWINDOWS NAME:	SnapAV Wattbox v1.9
CATEGORY:	Surge Protectors
VERSION:	1.9
SUMMARY:	This module controls a Wattbox surge protector via TCP/IP.
GENERAL NOTES:	This module was designed to control Wattbox devices. This module supports a maximum of 18 outlets and is compatible with WattBox 800, 250, and 150 series. Please note that certain features will not be populated depending on the piece of hardware used. For example, WiFi WattBox will not have UPS data or energy data.
CRESTRON HARDWARE REQUIRED:	3 series processor is required.
SETUP OF CRESTRON HARDWARE:	TCP/IP on a per-request basis in SIMPL+. IP address of the Wattbox device.
VENDOR FIRMWARE:	None.
VENDOR SETUP:	None.
CABLE DIAGRAM:	None.

CONTROL:

CONNECT	D	Set to high to enable this module.
DEBUG	D	Set to high to turn debugging on for toolbox.
POLL NOW	D	Set to high to query the device immediately for the latest outlet state, ups state, and power state.
OUTLET_RESET_ALL	D	Pulse to reset all outlets.
AUTO_REBOOT_ENABLE	D	Pulse to set auto reboot to enabled.
AUTO_REBOOT_DISABLE	D	Pulse to set auto reboot to disabled.
OUTLET_ON[n]	D	Where n = outlet number. Pulse to turn the outlet on.
OUTLET_OFF[n]	D	Where n = outlet number. Pulse to turn the outlet off.
OUTLET_RESET[n]	D	Where n = outlet number. Pulse to reset the outlet.
OUTLET_TOGGLE[n]	D	Where n = outlet number. Pulse to toggle the outlet.
OUTPUT_RESET_DELAY_OVERRIDE	A	Delay in seconds ranging from 1 – 600 used to override the power on delay configured in OvrC. If you'd like to use the OvrC configured power on delay, this must be set to zero.

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PASSTHROUGH	S	Allows a means to send commands directly to the device. Must adhere to the official WattBox Protocol Document.

FEEDBACK:

CONNECTED	D	HIGH = Connected LOW = Disconnected
UPS_BATTERY_HEALTH	D	LOW = Good HIGH = Bad
UPS_POWER_LOST	D	LOW = power on HIGH = power lost
UPS_ALARM_ENABLED	D	LOW = disabled HIGH = enabled
UPS_ALARM_MUTED	D	LOW = Unmuted HIGH = muted
OUTLET_STATES[n]	D	Where n = outlet number. LOW = off HIGH = on
SAFE_VOLTAGE_EVENT	D	LOW = safe HIGH = Unsafe
UPS_BATTERY_CHARGE	A	Percentage battery charge
UPS_BATTERY_RUNTIME	A	Time in minutes left of battery
UPS_BATTERY_LOAD	A	Percentage battery load
CURRENT	A	Overall current usage in amps
POWER	A	Overall power usage in watts
VOLTAGE	A	Overall voltage usage in volts
OUTLET_POWER[o]	A	Power usage in watts for outlet o
OUTLET_CURRENT_RMS[o]	A	Current usage in amps for outlet o
OUTLET_VOLTAGE_RMS[o]	A	Voltage usage in volts for outlet o
FIRMWARE_VERSION	S	Text representing firmware version
HOSTNAME	S	Text representing hostname
SERVICE_TAG	S	Text representing service tag
MODEL_NUMBER	S	Text representing model number
OUTLET_NAMES[n]	S	Where n = outlet number. Text representing name

PARAMETER:

device_ip$	S	IP address of the Wattbox.

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Username$	S	Username of the Wattbox
Password$	S	Password of the Wattbox.

TESTING:

OPS USED FOR TESTING:	RMC3 1.010.0060
SIMPL WINDOWS USED FOR TESTING:	4.02.65
DEVICE DB USED FOR TESTING:	65.05.003.00
CRES DB USED FOR TESTING:	51.05.007.00
SYMBOL LIBRARY USED FOR TESTING:	944
SAMPLE PROGRAM:	SnapAV Wattbox Demo
REVISION HISTORY:	V1.9 Fixed outlet feedback with WB-150 SKU V1.8 Optimizations and cleanup V1.7 Fixed 6 outlet bug preventing ups and energy polling V1.6 Added support for reset outlet with delay V1.5 Added support for wifi wattbox Added support for 2 way feedback V1.4 Added service tag and removed serial number V1.3 Added poll now signal, connected signal for indicating communication state, outlet reset code refactor. V1.2 Fixed outlet names with commas V1.1 Added login credentials V1.0 Original Release

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