

Partner: WeatherHawk
 Model: WH-IP
 Device Type: Weather Station



GENERAL INFORMATION

SIMPLWINDOWS NAME:	WeatherHawk WH-IP v1.0
CATEGORY:	Miscellaneous
VERSION:	1.0
SUMMARY:	This module provides feedback for the WeatherHawk weather station using the WH-IP IP module.
GENERAL NOTES:	This module will poll the WH-IP at the selected interval. The module will control the TCP/IP Client connection. NOTE: Analog values provided are to 2 decimal places. If the value is 23.45 the *_Value output will be 2345.
CRESTRON HARDWARE REQUIRED:	C2ENET-1/2
SETUP OF CRESTRON HARDWARE:	TCP/IP Client Port: 80
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	You will need to set an IP address in the WH-IP using the WH-IP Downloader software.
CABLE DIAGRAM:	Ethernet

CONTROL:

Reset	D	Pulse to reset all values in the Simpl+. WARNING: THIS WILL RESET THE DAILY AND HOURLY RAINFALL TOTALS. RAINFALL SINCE MIDNIGHT WILL NOT BE CORRECT UNTIL MIDNIGHT AGAIN. RAINFALL PREVIOUS 60 MINUTES WILL NOT BE CORRECT FOR THE NEXT HOUR AFTER PULSING THIS INPUT.
Refresh	D	Pulse to refresh all of the text and analog outputs on the module.
Poll_Enable	D	Set high to enable polling.
Connect-F	D	Signal to be routed from the Connect-F output of the TCP/IP Client.
Status	A	Analog value indicating the current connection status of the TCP/IP Client.
From_Device	S	Serial signal to be routed from the RX\$ output of the TCP/IP Client.

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PARAMETERS:

Poll Interval	P	Select the poll interval from the drop down list. Options are 15 seconds, 30 seconds or 60 seconds. Default is 60 seconds.
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FEEDBACK:

Latitude_Text	S	Serial signal indicating the latitude set in the WeatherHawk.
Latitude_Value	A	Analog signal indicating the latitude set in the WeatherHawk. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Longitude_Text	S	Serial signal indicating the longitude set in the WeatherHawk.
Longitude_Value	A	Analog signal indicating the longitude set in the WeatherHawk. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Altitude_<Meters/Feet>_Text	S	Serial signal indicating the altitude set in the WeatherHawk in meters and feet.
Altitude_<Meters/Feet>_Value	A	Analog signal indicating the altitude set in the WeatherHawk in meters and feet. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Barometric_Pressure_Offset_<KPa/inHg>_Text	S	Serial signal indicating the Barometric pressure offset that has been set in the WeatherHawk in kilopascals (KPa) and inches of mercury (inHg).
Barometric_Pressure_Offset_<KPa/inHg>_Value	A	Analog signal indicating the Barometric pressure offset that has been set in the WeatherHawk in kilopascals (KPa) and inches of mercury (inHg). This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Internal_Data_Logging_Timer_Seconds_Text	S	Serial signal indicating the internal data logging timer interval that has been set in the WeatherHawk in seconds.
Internal_Data_Logging_Timer_Value	A	Analog signal indicating the internal data logging timer interval that has been set in the WeatherHawk in seconds. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Battery_Voltage_Volts_Text	S	Serial signal indicating the current DC battery voltage WeatherHawk in volts.
Battery_Voltage_Volts_Value	A	Analog signal indicating the current DC battery voltage WeatherHawk in volts. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.

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Solar_Watts_Per_Square_Meter_Text	S	Serial signal indicating the solar radiation in Watts per Square Meter.
Solar_Watts_Per_Square_Meter_Value	A	Analog signal indicating the solar radiation in Watts per Square Meter. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Air_Temperature_<Celsius/Fahrenheit>_Text	S	Serial signal indicating the air temperature in degrees Celsius or Fahrenheit.
Air_Temperature_<Celsius/Fahrenheit>_Value	A	Analog signal indicating the air temperature in degrees Celsius or Fahrenheit. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Relative_Humidity_Text	S	Serial signal indicating the relative humidity in percent.
Relative_Humidity_Value	A	Analog signal indicating the relative humidity in percent. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Barometric_Pressure_<KPa/inHg>_Text	S	Serial signal indicating the Barometric pressure in kilopascals (KPa) and inches of mercury (inHg).
Barometric_Pressure_<KPa/inHg>_Value	A	Analog signal indicating the Barometric pressure in kilopascals (KPa) and inches of mercury (inHg). This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Wind_Speed_*_Text	S	Serial signal indicating the wind speed in Kilometers Per Hour or Miles Per Hour.
Wind_Speed_*_Value	A	Analog signal indicating the wind speed in Kilometers Per Hour or Miles Per Hour. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Wind_Direction_Degrees_Text	S	Serial signal indicating the wind direction in degrees.
Wind_Direction_Degrees_Value	A	Analog signal indicating the wind direction in degrees. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Wind_Direction_16_Point_Compass_Text	S	Serial signal indicating the wind direction using a 16 point compass. i.e. NNW
Wind_Direction_16_Point_Compass_Value	A	Analog signal indicating the wind direction using a 16 point compass. i.e. 16. Values are 1=N, 2=NNE, 3=NE, 4=ENE, 5=E, 6=ESE, 7=SE, 8=SSE, 9=S, 10=SSW, 11=SW, 12=WSW, 13=W, 14=WNW, 15=NW, 16=NNW
Wind_Direction_*	D	Digital signal indicating the current wind direction.
Rainfall_Year_To_Date_<mm/Inches>_Text	S	Serial signal indicating the total rainfall year to date in

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		millimeters or inches.
Rainfall_Year_To_Date_<mm/Inches>_Text	A	Analog signal indicating the total rainfall year to date in millimeters or inches. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Rainfall_Since_Midnight_<mm/Inches>_Text	S	Serial signal indicating the total rainfall since midnight in millimeters or inches.
Rainfall_Since_Midnight_<mm/Inches>_Text	A	Analog signal indicating the total rainfall since midnight in millimeters or inches. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Rainfall_Previous_60_Minutes_<mm/Inches>_Text	S	Serial signal indicating the total rainfall in the last 60 minutes in millimeters or inches.
Rainfall_Previous_60_Minutes_<mm/Inches>_Text	A	Analog signal indicating the total rainfall in the last 60 minutes in millimeters or inches. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Daily_Evapotranspiration_<mm/Inches>_Text	S	Serial signal indicating the daily evapotranspiration in millimeters or inches.
Daily_Evapotranspiration_<mm/Inches>_Text	A	Analog signal indicating the daily evapotranspiration in millimeters or inches. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Daily_Temperature_Maximum_<Celsius/Fahrenheit>_Text	S	Serial signal indicating the maximum temperature since midnight in degrees Celsius or degrees Fahrenheit.
Daily_Temperature_Maximum_<Celsius/Fahrenheit>_Value	A	Analog signal indicating the maximum temperature since midnight in degrees Celsius or degrees Fahrenheit. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Daily_Temperature_Minimum_<Celsius/Fahrenheit>_Text	S	Serial signal indicating the maximum temperature since midnight in degrees Celsius or degrees Fahrenheit.
Daily_Temperature_Minimum_<Celsius/Fahrenheit>_Value	A	Analog signal indicating the maximum temperature since midnight in degrees Celsius or degrees Fahrenheit. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Wind_Chill_<Celsius/Fahrenheit>_Text	S	Serial signal indicating the wind chill in degrees Celsius or degrees Fahrenheit.
Wind_Chill_<Celsius/Fahrenheit>_Value	A	Analog signal indicating the wind chill in degrees Celsius or degrees Fahrenheit. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Dew_Point_<Celsius/Fahrenheit>_Text	S	Serial signal indicating the dew point in degrees Celsius or degrees Fahrenheit.

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Dew_Point_<Celsius/Fahrenheit>_Value	A	Analog signal indicating the dew point in degrees Celsius or degrees Fahrenheit. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Daily_Wind_Speed_Maximum_*_Text	S	Serial signal indicating the maximum wind speed since midnight in Kilometers Per Hour or Miles Per Hour.
Daily_Wind_Speed_Maximum_*_Value	A	Analog signal indicating the maximum wind speed since midnight in Kilometers Per Hour or Miles Per Hour. This is to be displayed using a gauge on a touch panel. It is set to 2 decimal places.
Connect	D	Digital signal to be connected to the Connect input on the TCP/IP Client.
To_Device	S	Serial signal to be connected to the TX\$ input on the TCP/IP Client.

TESTING:

OPS USED FOR TESTING:	4.001.1012
SIMPL WINDOWS USED FOR TESTING:	2.12.44
CRESTRON DB USED FOR TESTING:	30.00.011.00
DEVICE DB USED FOR TESTING:	22.05.013.00
SAMPLE PROGRAM:	WeatherHawk WH-IP v1.0 Demo
REVISION HISTORY:	V. 1.0