

Wattmon Modbus Device Variables Naming Convention Guide

Revision 1.1 Mar 16, 2018

Parameter ID	Parameter Name	Units	Description	Note
1	ModelNumber	N/A	Device Model Number	
2	SerialNumber	N/A	Device Serial Number	
3	AC_Current	Amps	Total AC Current	
4	AC_Current_A	Amps	AC Current Phase A	
5	AC_Current_B	Amps	AC Current Phase B	
6	AC_Current_C	Amps	AC Current Phase C	
7	AC_Input_Current_A	Amps	AC Input Current Phase A	
8	AC_Input_Current_B	Amps	AC Input Current Phase B	
9	AC_Input_Current_C	Amps	AC Input Current Phase C	
10	AC_Current_A_THD	%	AC Current Phase A - Total Harmonic Distortion	
11	AC_Current_B_THD	%	AC Current Phase B - Total Harmonic Distortion	
12	AC_Current_C_THD	%	AC Current Phase C - Total Harmonic Distortion	
13	AC_Voltage	Volts	Total AC Voltage	
14	AC_Voltage_AB	Volts	AC Voltage Phase A to Phase B	
15	AC_Voltage_BC	Volts	AC Voltage Phase B to Phase C	
16	AC_Voltage_CA	Volts	AC Voltage Phase C to Phase A	
17	AC_Voltage_AN	Volts	AC Voltage Phase A to Neutral	
18	AC_Voltage_BN	Volts	AC Voltage Phase B to Neutral	
19	AC_Voltage_CN	Volts	AC Voltage Phase C to Neutral	
20	AC_Input_Voltage_AN	Volts	AC Input Voltage Phase A to Neutral	
21	AC_Input_Voltage_BN	Volts	AC Input Voltage Phase B to Neutral	
22	AC_Input_Voltage_CN	Volts	AC Input Voltage Phase C to Neutral	
23	AC_Voltage_AN_THD	%	AC Voltage Phase A to Neutral - Total Harmonic Distortion	
24	AC_Voltage_BN_THD	%	AC Voltage Phase B to Neutral - Total Harmonic Distortion	
25	AC_Voltage_CN_THD	%	AC Voltage Phase C to Neutral - Total Harmonic Distortion	
26	AC_Active_Power	Watts	Total AC Active Power	
27	AC_Active_Power_A	Watts	AC Active Power Phase A	
28	AC_Active_Power_B	Watts	AC Active Power Phase B	
29	AC_Active_Power_C	Watts	AC Active Power Phase C	
30	AC_Input_Active_Power_A	Watts	AC Input Active Power Phase A	
31	AC_Input_Active_Power_B	Watts	AC Input Active Power Phase B	
32	AC_Input_Active_Power_C	Watts	AC Input Active Power Phase C	
33	AC_Active_Power_A_THD	%	AC Active Power Phase A - Total Harmonic Distortion	
34	AC_Active_Power_B_THD	%	AC Active Power Phase B - Total Harmonic Distortion	
35	AC_Active_Power_C_THD	%	AC Active Power Phase C - Total Harmonic Distortion	

36	AC_Frequency	Hertz	AC Frequency
37	AC_Frequency_A	Hertz	AC Frequency Phase A
38	AC_Frequency_B	Hertz	AC Frequency Phase B
39	AC_Frequency_C	Hertz	AC Frequency Phase C
40	AC_Input_Frequency	Hertz	AC Input Frequency
41	AC_Input_Frequency_A	Hertz	AC Input Frequency Phase A
42	AC_Input_Frequency_B	Hertz	AC Input Frequency Phase B
43	AC_Input_Frequency_C	Hertz	AC Input Frequency Phase C
44	AC_Reactive_Power	VAR	Total AC Reactive Power
45	AC_Reactive_Power_A	VAR	AC Reactive Power Phase A
46	AC_Reactive_Power_B	VAR	AC Reactive Power Phase B
47	AC_Reactive_Power_C	VAR	AC Reactive Power Phase C
48	AC_Apparent_Power	Volt-Amps	Total AC Apparent Power
49	AC_Apparent_Power_A	Volt-Amps	AC Apparent Power Phase A
50	AC_Apparent_Power_B	Volt-Amps	AC Apparent Power Phase B
51	AC_Apparent_Power_C	Volt-Amps	AC Apparent Power Phase C
52	AC_PF	%	Total AC Power Factor
53	AC_PF_A	%	AC Power Factor Phase A
54	AC_PF_B	%	AC Power Factor Phase B
55	AC_PF_C	%	AC Power Factor Phase C
56	kWh_Total_Active	kWh	Lifetime Generation / Total Active Energy
57	kWh_Day_Active	kWh	Daily Generation
58	kWh_Total_Apparent	kVAh	Total Apparent Energy
59	kWh_Total_Reactive	kVARh	Total Reactive Energy
60	DC_Current	Amps	Total DC Current
61	DC_Current_1	Amps	DC Current PV 1
62	DC_Current_2	Amps	DC Current PV 2
63	DC_Current_3	Amps	DC Current PV 3
64	DC_Voltage	Volts	Total DC Voltage
65	DC_Voltage_1	Volts	DC Voltage PV 1
66	DC_Voltage_2	Volts	DC Voltage PV 2
67	DC_Voltage_3	Volts	DC Voltage PV 3
68	DC_Power	Watts	Total DC Power
69	DC_Power_1	Watts	DC Power PV 1
70	DC_Power_2	Watts	DC Power PV 2
71	DC_Power_3	Watts	DC Power PV 3
72	Temperature_Internal	°C	Internal Temperature
73	Current_String_1	Amps	String 1 Current
74	Current_String_2	Amps	String 2 Current

75	Current_String_3	Amps	String 3 Current	
76	Current_String_4	Amps	String 4 Current	
77	Input_Current_Limit	Amps	Active Input Current Limit	For Off-Grid Inverters
78	Battery_Voltage	Volts	Battery Voltage	For Off-Grid Inverters
79	Battery_Current	Amps	Battery Current	For Off-Grid Inverters
80	Phase_Count	N/A	Phase Count	For Off-Grid Inverters
81	Active_Input	N/A	Active Input	For Off-Grid Inverters
82	SoC	%	State of Charge	For Off-Grid Inverters
83	Charge_Power_Day	Watts	Daily Maximum Charge Power	For Off-Grid Inverters
84	Charge_State	N/A	Charge State	For Off-Grid Inverters
85	Status_Code	N/A	Vendor-defined Operating State	
86	Event_Code	N/A	Vendor-defined Events & Errors	
87	kWh_Total_Export	kWh	Total Export Energy	For bidirectional meters
88	kWh_Total_Import	kWh	Total Import Energy	For bidirectional meters
89	kWh_Day_Export	kWh	Daily Export Energy	For bidirectional meters
90	kWh_Day_Import	kWh	Daily Import Energy	For bidirectional meters

Note

Final naming would be: [device name]_[parameter name]

Final implementation Example:

inverter1_AC_Voltage