

MODBUS POINT MAP

Int	Float	R/W	N/V	Model	Description
1	257/258	R	NV		Energy Consumption, kWh, Low-word integer. Both 257/258 and 259/260 have the same floating point value.
2	259/260	R	NV		Energy Consumption, kWh, High-word integer. Both 257/258 and 259/260 have the same floating point value.
3	261/262	R			Real Power, kW
4	263/264	R			Reactive Power, kVar
5	265/266	R			Apparent Power, kVa
6	267/268	R			Total Power Factor
7	269/270	R		-1 -2 -3	Not Applicable; reads 0xFFFF/NaN (int/float) Avg Voltage, L-L, average of 1 Avg Voltage, L-N, average of 3
8	271/272	R R R		-1 -2 -3	Avg Voltage, L-N, average of 1 Avg Voltage, L-N, average of 2 Avg Voltage, L-N, average of 3
9	273/274	R R R		-1 -2 -3	Avg Current, average of 1 Avg Current, average of 2 Avg Current, average of 3
10	275/276	R		-1 -2/-3	Real Power, phase A (same as Real Power, kW (3)) Real Power, phase A
11	277/278	R		-1 -2/-3	Not Applicable; reads as 0xFFFF/NaN (int/float) Real Power, phase B
12	279/280	R		-1/-2 -3	Not Applicable; reads as 0xFFFF/NaN (int/float) Real Power, phase C
13	281/282	R		-1 -2/-3	Power Factor, phase A (Same as Total PF (6)) Power Factor, phase A
14	283/284	R		-1 -2/-3	Not Applicable; reads as 0xFFFF/NaN (int/float) Power Factor, phase B
15	285/286	R		-1/-2 -3	Not Applicable; reads as 0xFFFF/NaN (int/float) Power Factor, phase C
16	287/288	R		-1 -2/-3	Not Applicable; reads as 0xFFFF/NaN (int/float) Voltage, phase A-B
17	289/290	R		-1/-2 -3	Not Applicable; reads as 0xFFFF/NaN (int/float) Voltage, phase B-C
18	291/292	R		-1/-2 -3	Not Applicable; reads as 0xFFFF/NaN (int/float) Voltage, phase A-C
19	293/294	R		-1 -2/-3	Voltage, phase A-N (Same as Avg. L-N (8)) Voltage, phase A-N
20	295/296	R		-1 -2/-3	Not Applicable; reads as 0xFFFF/NaN (int/float) Voltage, phase B-N
21	297/298	R		-1/-2 -3	Not Applicable; reads as 0xFFFF/NaN (int/float) Voltage, phase C-N
22	299/300	R		-1 -2/-3	Current, phase A (Same as Avg. Current (9)) Current, phase A
23	301/302	R		-1 -2/-3	Not Applicable; reads as 0xFFFF/NaN (int/float) Current, phase B
24	303/304	R		-1/-2 -3	Not Applicable; reads as 0xFFFF/NaN (int/float) Current, phase C

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25	305/306	R			Present Demand Sub-Interval. This is the currently accumulating Sub-Interval demand, which is constantly changing.
26	307/308	R			Present Demand (kW). This is the present demand, which is updated at the end of every Sub-Interval. This value is the average of the previous N subintervals, where N is the number of sub intervals (register 37).
27	309/310	R	NV		The peak demand is the highest demand value (register 26) that has occurred. Note: This value is also displayed on LCD for MAX kW when the comms board is present.
28	311/312	R			Present kVAR Sub-Interval. This is the currently accumulating Sub-Interval KVAR, which is constantly changing.
29	313/314	R			Present kVAR. This is the present kVar, which is updated at the end of every sub-interval. This value is the average of the previous N sub-intervals, where N is the number of sub-intervals (register 37).
30	315/316	R	NV		Peak kVar. The peak kVar is the highest kVar value (register 28) that has occurred.
31		R	NV		Count of KWh resets. The number of times the peak demand (register 27) has been reset. This value will roll over from 65535 to zero.
32		R	NV		Count of Peak Demand Resets. The number of times the peak demand (register 27) has been reset. This value will roll over from 65535 to zero.
33		R	NV		Count of Peak kVar Resets. The number of times the peak kVar (register 30) has been reset. This value will roll over from 65535 to zero.
34		R			Count of Elapsed Sub Intervals. This counts the number of sub-intervals that have elapsed. Because the demand (register 28) is updated every sub-interval, this register may be read to determine if an identical value in register 28 is actually the same demand interval, or if it is a new interval and the load has remained steady.
35		R			Number readings in present sub-interval. This value indicates the number of readings that are represented by the present sub-interval (register 25). this register acts as an unsigned integer. Values larger than 32767 should not be "trusted". See below for explanation of sub-interval reading count overflow. This register will increment every 200 ms (5 times per Second).
36		R/W	NV		Sub-Interval Length. Sets the length of a sub-interval. Value is the number of seconds * 5, for example, 4500 is 15 minutes. For sync-to-comms, or sync-to-demand-reset-input (hardware signal), set this to zero.
37		R	NV		Number of Sub-Intervals per Demand Interval. Sets the number of sub-intervals that make a single demand interval. Legal values are 1 to 6. For block demand, set this to 1.
38		R	NV		System ID. This register reads as 15024 for the Basic Meter and 15025 for the Enhanced Model to help identify the meter.
39		R	NV		CT Size. This register reads as the CT size: 100, 300, etc.

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40		R	N/V		CT Number. The number of CTs that are connected, 1,2, or 3.
41		R/W			Command (bit mapped): bit 0 (mask 1) = begin new demand sub-interval bit 1 (mask 2) = clear kWh accumulator bit 2 (mask 4) = reset peak demand bit 3 (mask 8) = reset peak kVAR bits 4-15 should be written as zeros to avoid activating any additional commands that may be added in future revisions.
42		R/W	N/V		Phase Loss, Latching Register (bit mapped): bit 0 = phase A (unpredictable results, phase A) bit 1 = phase B bit 2 = phase C bits 3 to 15 should be written as zeros. This Latching register should be cleared by user.
43		R	N/V		Count of Phase Losses The number of times a phase loss has occurred on any phase. This value will roll over from 65535 to zero.
44		R/W	N/V		Date/Time Month 1-12(LSB) Day 1-31 (MSB)
45		R/W	N/V		Date/Time Year 0-99(LSB) Hour 0-23 (MSB)
46		R/W	N/V		Date/Time Minutes 0-59 (LSB) Second 0-59 (MSB)
47		R	N/V		Phase Loss Timestamp, Month 1-12 (LSB) Day 1-31 (MSB)
48		R	N/V		Phase Loss Timestamp, Year 0-99, Hour 0-23 (MSB)
49		R	N/V		Phase Loss Timestamp, Minutes 0-59 (LSB) Seconds 0-59 (MSB)
50		R	N/V		Last Restart Timestamp, Month 1-12 (LSB) Day 1-31 (MSB)
51		R	N/V		Last Restart Timestamp, Year 0-99, Hour 0-23 (MSB)
52		R	N/V		Last Restart Timestamp, Minutes 0-59 (LSB), Seconds 0-59 (MSB)
53		R	N/V		Last kWh Reset Timestamp, Month 1-12 (LSB) Day 1-31 (MSB)
54		R	N/V		Last kWh Reset Timestamp, Year 0-99 (LSB) Hour 0-23 (MSB)
55		R	N/V		Last kWh Reset Timestamp, Minutes 0-59 (LSB) Seconds 0-59 (MSB)

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