

Modbus Parameters

Mode: RTU (LSB first, apply address offset of +1 for Function 3 Holding Registers)
 Baudrate: 300 / 600 / 1200 / 2400 / 4800 / 9600 / 19200 bps
 Data Bit: 8
 Stop Bits: 1 or 2
 Parity: None / Odd / Even
 Functions: 3 / 4
 Scan Rate: ≤ 100ms

Default

9600

1
None

FLOAT REVERSE WORD Data-structure example:

Start Register: 30058 - Total Active Energy (System) kWh
 Data Registers: 30058 = LSB (01), 30059 = MSB (23)
 FLOAT ordering = MSB.LSB (2301)


Register List

Starting Address (Decimal)	Starting Register (Hex)	Parameter	CT Input	Channel (CH)	Unit	Function	Read / Write	Length	Data structure	Range / Value	Default
30000	0x00	Voltage V1-N	-	-	V	3	R	2	FLOAT REVERSE WORD	-	-
30002	0x02	Voltage V2-N	-	-	V	3	R	2	FLOAT REVERSE WORD	-	-
30004	0x04	Voltage V3-N	-	-	V	3	R	2	FLOAT REVERSE WORD	-	-
30006	0x06	Average Voltage L-N	-	-	V	3	R	2	FLOAT REVERSE WORD	-	-
30008	0x08	Voltage V1-2	-	-	V	3	R	2	FLOAT REVERSE WORD	-	-
30010	0x0A	Voltage V2-3	-	-	V	3	R	2	FLOAT REVERSE WORD	-	-
30012	0x0C	Voltage V3-1	-	-	V	3	R	2	FLOAT REVERSE WORD	-	-
30014	0x0E	Average Voltage L-L	-	-	V	3	R	2	FLOAT REVERSE WORD	-	-
30016	0x10	Current I1	2	2 or 6	A	3	R	2	FLOAT REVERSE WORD	-	-
30018	0x12	Current I2	2	2 or 6	A	3	R	2	FLOAT REVERSE WORD	-	-
30020	0x14	Current I3	2	2 or 6	A	3	R	2	FLOAT REVERSE WORD	-	-
30022	0x16	Average Current	2	2 or 6	A	3	R	2	FLOAT REVERSE WORD	-	-
30024	0x18	kW1	2	2 or 6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30026	0x1A	kW2	2	2 or 6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30028	0x1C	kW3	2	2 or 6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30030	0x1E	kVA1	2	2 or 6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30032	0x20	kVA2	2	2 or 6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30034	0x22	kVA3	2	2 or 6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30036	0x24	kVAr1	2	2 or 6	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30038	0x26	kVAr2	2	2 or 6	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30040	0x28	kVAr3	2	2 or 6	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30042	0x2A	Total kW	2	2 or 6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30044	0x2C	Total kVA	2	2 or 6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30046	0x2E	Total kVAr	2	2 or 6	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30048	0x30	PF1	2	2 or 6		3	R	2	FLOAT REVERSE WORD	-	-
30050	0x32	PF2	2	2 or 6		3	R	2	FLOAT REVERSE WORD	-	-
30052	0x34	PF3	2	2 or 6		3	R	2	FLOAT REVERSE WORD	-	-
30054	0x36	Average PF	2	2 or 6		3	R	2	FLOAT REVERSE WORD	-	-
30056	0x38	Frequency	2	2 or 6	Hz	3	R	2	FLOAT REVERSE WORD	-	-
30058	0x3A	Total net kWh	2	2 or 6	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30062	0x3E	Total net kVArh	2	2 or 6	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30064	0x40	kW Max Active Power	2	2 or 6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30072	0x48	kVA Max Apparent Power	2	2 or 6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30074	0x4A	Current I1	1	2 or 6	A	3	R	2	FLOAT REVERSE WORD	-	-
30076	0x4C	Current I2	1	2 or 6	A	3	R	2	FLOAT REVERSE WORD	-	-
30078	0x4E	Current I3	1	2 or 6	A	3	R	2	FLOAT REVERSE WORD	-	-
30080	0x50	Average Current	1	2 or 6	A	3	R	2	FLOAT REVERSE WORD	-	-
30082	0x52	kW1	1	2 or 6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30084	0x54	kW2	1	2 or 6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30086	0x56	kW3	1	2 or 6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30088	0x58	kVA1	1	2 or 6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30090	0x5A	kVA2	1	2 or 6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30092	0x5C	kVA3	1	2 or 6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30094	0x5E	kVAr1	1	2 or 6	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30096	0x60	kVAr2	1	2 or 6	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30098	0x62	kVAr3	1	2 or 6	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30100	0x64	Total kW	1	2 or 6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30102	0x66	Total kVA	1	2 or 6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30104	0x68	Total kVAr	1	2 or 6	kVAr	3	R	2	FLOAT REVERSE WORD	-	-
30106	0x6A	PF1	1	2 or 6		3	R	2	FLOAT REVERSE WORD	-	-
30108	0x6C	PF2	1	2 or 6		3	R	2	FLOAT REVERSE WORD	-	-
30110	0x6E	PF3	1	2 or 6		3	R	2	FLOAT REVERSE WORD	-	-
30112	0x70	Average PF	1	2 or 6		3	R	2	FLOAT REVERSE WORD	-	-
30114	0x72	Frequency	1	2 or 6	Hz	3	R	2	FLOAT REVERSE WORD	-	-
30116	0x74	Total net kWh	1	2 or 6	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30120	0x78	Total net kVArh	1	2 or 6	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30122	0x7A	kW Max Active Power	1	2 or 6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30130	0x82	kVA Max Apparent Power	1	2 or 6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30132	0x84	Serial No.	-	-		3	R	2	HEX	-	-
30134	0x86	Existing kW Max Active Power	2	2 or 6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30138	0x8A	Existing kVA Max Apparent Power	2	2 or 6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30142	0x8E	Total kWh (CT1 + CT2)	1 + 2	2 or 6	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30144	0x90	Total kVArh (CT1 + CT2)	1 + 2	2 or 6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30146	0x92	Existing kW Max Active Power	1	2 or 6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30148	0x94	Existing kVA Max Apparent Power	1	2 or 6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30150	0x96	kWh of CH1	1	6	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30152	0x98	kWh of CH2	1	6	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30154	0x9A	kWh of CH3	1	6	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30156	0x9C	kWh of CH4	2	6	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30158	0x9E	kWh of CH5	2	6	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30160	0xA0	kWh of CH6	2	6	kWh	3	R	2	FLOAT REVERSE WORD	-	-
30162	0xA2	kVArh of CH1	1	6	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30164	0xA4	kVArh of CH2	1	6	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30166	0xA6	kVArh of CH3	1	6	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30168	0xA8	kVArh of CH4	2	6	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30170	0xAA	kVArh of CH5	2	6	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30172	0xAC	kVArh of CH6	2	6	kVArh	3	R	2	FLOAT REVERSE WORD	-	-
30174	0xAE	kW Max Active Power of CH1	1	6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30176	0xB0	kW Max Active Power of CH2	1	6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30178	0xB2	kW Max Active Power of CH3	1	6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30180	0xB4	kW Max Active Power of CH4	2	6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30182	0xB6	kW Max Active Power of CH5	2	6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30184	0xB8	kW Max Active Power of CH6	2	6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30186	0xBA	kVA Max Apparent Power of CH1	1	6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30188	0xBC	kVA Max Apparent Power of CH2	1	6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30190	0xBE	kVA Max Apparent Power of CH3	1	6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30192	0xC0	kVA Max Apparent Power of CH4	2	6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30194	0xC2	kVA Max Apparent Power of CH5	2	6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30196	0xC4	kVA Max Apparent Power of CH6	2	6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30198	0xC6	Existing kW Max Active Power of CH1	1	6	kW	3	R	2	FLOAT REVERSE WORD	-	-

Starting Address (Decimal)	Starting Register (Hex)	Parameter	CT Input	Channel (CH)	Unit	Function	Read / Write	Length	Data structure	Range / Value	Default
30200	0xC8	Existing kW Max Active Power of CH2	1	6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30202	0xCA	Existing kW Max Active Power of CH3	1	6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30204	0xCC	Existing kW Max Active Power of CH4	2	6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30206	0xCE	Existing kW Max Active Power of CH5	2	6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30208	0xD0	Existing kW Max Active Power of CH6	2	6	kW	3	R	2	FLOAT REVERSE WORD	-	-
30210	0xD2	Existing kVA Max Apparent Power of CH1	1	6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30212	0xD4	Existing kVA Max Apparent Power of CH2	1	6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30214	0xD6	Existing kVA Max Apparent Power of CH3	1	6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30216	0xD8	Existing kVA Max Apparent Power of CH4	2	6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30218	0xDA	Existing kVA Max Apparent Power of CH5	2	6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
30220	0xDC	Existing kVA Max Apparent Power of CH6	2	6	kVA	3	R	2	FLOAT REVERSE WORD	-	-
31000	0x3E8	Voltage V1-N	-	-	V	3	R	2	HEX	-	-
31002	0x3EA	Voltage V2-N	-	-	V	3	R	2	HEX	-	-
31004	0x3EC	Voltage V3-N	-	-	V	3	R	2	HEX	-	-
31006	0x3EE	Average Voltage L-N	-	-	V	3	R	2	HEX	-	-
31008	0x3F0	Voltage V1-2	-	-	V	3	R	2	HEX	-	-
31010	0x3F2	Voltage V2-3	-	-	V	3	R	2	HEX	-	-
31012	0x3F4	Voltage V3-1	-	-	V	3	R	2	HEX	-	-
31014	0x3F6	Average Voltage L-L	-	-	V	3	R	2	HEX	-	-
31016	0x3F8	Current I1	2	2 or 6	A	3	R	2	HEX	-	-
31018	0x3FA	Current I2	2	2 or 6	A	3	R	2	HEX	-	-
31020	0x3FC	Current I3	2	2 or 6	A	3	R	2	HEX	-	-
31022	0x3FE	Average Current	2	2 or 6	A	3	R	2	HEX	-	-
31024	0x400	kW1	2	2 or 6	kW	3	R	2	HEX	-	-
31026	0x402	kW2	2	2 or 6	kW	3	R	2	HEX	-	-
31028	0x404	kW3	2	2 or 6	kW	3	R	2	HEX	-	-
31030	0x406	kVA1	2	2 or 6	kVA	3	R	2	HEX	-	-
31032	0x408	kVA2	2	2 or 6	kVA	3	R	2	HEX	-	-
31034	0x40A	kVA3	2	2 or 6	kVA	3	R	2	HEX	-	-
31036	0x40C	kVAr1	2	2 or 6	kVAr	3	R	2	HEX	-	-
31038	0x40E	kVAr2	2	2 or 6	kVAr	3	R	2	HEX	-	-
31040	0x410	kVAr3	2	2 or 6	kVAr	3	R	2	HEX	-	-
31042	0x412	Total kW	2	2 or 6	kW	3	R	2	HEX	-	-
31044	0x414	Total kVA	2	2 or 6	kVA	3	R	2	HEX	-	-
31046	0x416	Total kVAr	2	2 or 6	kVAr	3	R	2	HEX	-	-
31048	0x418	PF1	2	2 or 6		3	R	1	HEX	-	-
31049	0x419	PF2	2	2 or 6		3	R	1	HEX	-	-
31050	0x41A	PF3	2	2 or 6		3	R	1	HEX	-	-
31051	0x41B	Average PF	2	2 or 6		3	R	1	HEX	-	-
31052	0x41C	Frequency	2	2 or 6	Hz	3	R	1	HEX	-	-
31054	0x41E	kWh	2	2 or 6	kWh	3	R	3	HEX	-	-
31057	0x421	kVArh	2	2 or 6	kVArh	3	R	3	HEX	-	-
31064	0x428	kW Max Active Power	2	2 or 6	kW	3	R	2	HEX	-	-
31072	0x430	kVA Max Apparent Power	2	2 or 6	kVA	3	R	2	HEX	-	-
31074	0x3F8	Current I1	1	2 or 6	A	3	R	2	HEX	-	-
31076	0x3FA	Current I2	1	2 or 6	A	3	R	2	HEX	-	-
31078	0x3FC	Current I3	1	2 or 6	A	3	R	2	HEX	-	-
31080	0x3FE	Average Current	1	2 or 6	A	3	R	2	HEX	-	-
31082	0x400	kW1	1	2 or 6	kW	3	R	2	HEX	-	-
31084	0x402	kW2	1	2 or 6	kW	3	R	2	HEX	-	-
31086	0x404	kW3	1	2 or 6	kW	3	R	2	HEX	-	-
31088	0x406	kVA1	1	2 or 6	kVA	3	R	2	HEX	-	-
31090	0x408	kVA2	1	2 or 6	kVA	3	R	2	HEX	-	-
31092	0x40A	kVA3	1	2 or 6	kVA	3	R	2	HEX	-	-
31094	0x40C	kVAr1	1	2 or 6	kVAr	3	R	2	HEX	-	-
31096	0x40E	kVAr2	1	2 or 6	kVAr	3	R	2	HEX	-	-
31098	0x410	kVAr3	1	2 or 6	kVAr	3	R	2	HEX	-	-
31100	0x412	Total kW	1	2 or 6	kW	3	R	2	HEX	-	-
31102	0x414	Total kVA	1	2 or 6	kVA	3	R	2	HEX	-	-
31104	0x416	Total kVAr	1	2 or 6	kVAr	3	R	2	HEX	-	-
31106	0x418	PF1	1	2 or 6		3	R	1	HEX	-	-
31107	0x419	PF2	1	2 or 6		3	R	1	HEX	-	-
31108	0x41A	PF3	1	2 or 6		3	R	1	HEX	-	-
31109	0x41B	Average PF	1	2 or 6		3	R	1	HEX	-	-
31110	0x41C	Frequency	1	2 or 6	Hz	3	R	1	HEX	-	-
31112	0x41E	kWh	1	2 or 6	kWh	3	R	3	HEX	-	-
31115	0x421	kVArh	1	2 or 6	kVArh	3	R	3	HEX	-	-
31122	0x428	kW Max Active Power	1	2 or 6	kW	3	R	2	HEX	-	-
31131	0x430	kVA Max Apparent Power	1	2 or 6	kVA	3	R	2	HEX	-	-
31142	0x41E	Total kWh	1 + 2	2 or 6	kWh	3	R	3	HEX	-	-
31145	0x421	Total kVArh	1 + 2	2 or 6	kVArh	3	R	3	HEX	-	-
31150	0x47E	kWh CH1	1	6	kWh	3	R	3	HEX	-	-
31153	0x481	kWh CH2	1	6	kWh	3	R	3	HEX	-	-
31156	0x484	kWh CH3	1	6	kWh	3	R	3	HEX	-	-
31159	0x47E	kWh CH4	2	6	kWh	3	R	3	HEX	-	-
31162	0x481	kWh CH5	2	6	kWh	3	R	3	HEX	-	-
31165	0x484	kWh CH6	2	6	kWh	3	R	3	HEX	-	-
31168	0x490	kVArh CH1	1	6	kWh	3	R	3	HEX	-	-
31171	0x493	kVArh CH2	1	6	kWh	3	R	3	HEX	-	-
31174	0x496	kVArh CH3	1	6	kWh	3	R	3	HEX	-	-
31177	0x499	kVArh CH4	2	6	kWh	3	R	3	HEX	-	-
31180	0x49C	kVArh CH5	2	6	kWh	3	R	3	HEX	-	-
31183	0x49F	kVArh CH6	2	6	kWh	3	R	3	HEX	-	-
31186	0x4A2	kW Max Active Power of CH1	1	6	kWh	3	R	2	HEX	-	-
31188	0x4A4	kW Max Active Power of CH2	1	6	kWh	3	R	2	HEX	-	-
31190	0x4A6	kW Max Active Power of CH3	1	6	kWh	3	R	2	HEX	-	-
31192	0x4A8	kW Max Active Power of CH4	2	6	kWh	3	R	2	HEX	-	-
31194	0x4AA	kW Max Active Power of CH5	2	6	kWh	3	R	2	HEX	-	-
31196	0x4AC	kW Max Active Power of CH6	2	6	kWh	3	R	2	HEX	-	-
31198	0x4AE	kVAr Max Apparrant Power of CH1	1	6	kWh	3	R	2	HEX	-	-
31200	0x4B0	kVAr Max Apparrant Power of CH2	1	6	kWh	3	R	2	HEX	-	-
31202	0x4B2	kVAr Max Apparrant Power of CH3	1	6	kWh	3	R	2	HEX	-	-
31204	0x4B4	kVAr Max Apparrant Power of CH4	2	6	kWh	3	R	2	HEX	-	-
31206	0x4B6	kVAr Max Apparrant Power of CH5	2	6	kWh	3	R	2	HEX	-	-
31208	0x4B8	kVAr Max Apparrant Power of CH6	2	6	kWh	3	R	2	HEX	-	-
31291	0x50B	kWh of CH4	2	2 or 6	-	3	R	1	INT	Rollover Counter (RC) Increment when energy rollover from 9999999 to 0	0
31292	0x50C	kWh of CH5	2	2 or 6	-	3	R	1	INT		0
31293	0x50D	kWh of CH6	2	2 or 6	-	3	R	1	INT		0
31294	0x50E	Total kWh (CH4, CH5, CH6)	2	2 or 6	-	3	R	1	INT		0
31295	0x50F	kVArh of CH4	2	2 or 6	-	3	R	1	INT		0
31296	0x510	kVArh of CH5	2	2 or 6	-	3	R	1	INT		0
31297	0x511	kVArh of CH6	2	2 or 6	-	3	R	1	INT		0
31298	0x512	Total kVArh (CH4, CH5, CH6)	2	2 or 6	-	3	R	1	INT	0	